



Product Overview

A. u. K. Müller



Inspirational Valve Technology

Solenoid Valves
Control Valves
Special Valves and Systems





Content

Introduction	4
Sanitary	6
Cartridge Valves	6
Mono stable or latching pilot valve	7
Valve solutions based on the pilot valve	7
Infrared Sensors and Accessories	8
Integrated Cartridge	9
Cartridge Valve Body Adapter	9
Modular Urinal Valve System	9
Vending	10
Espresso Valves	10
2/2 Way, NC	10
2/2 Way, NO	11
3/2 Way	11
Push-Fit Fitting System FitSys 18	12
Dispense Valves	14
Two-piece Dispense Valves	14
One-piece Dispense Valves	14
Dispense Bank Valves	15
Dispense Valves DN 12 and DN 14	15
Accessories Dispense Valves	16
Soda Valve	17
Pumps	17
Medical Technology	18
Dialysis Valves	18
Vending and Medical Technology	19
2/2 Way Direct Acting Compact Valves	19
Modular Compact Valves	20
Lever Valves	20
Pinch Valves	21
Industry	23
Servo Controlled Valves, NC	23
Aqustop	27
Servo Controlled Valve, NO	27
Flow Meter Turbine	28
Servo-direct Stepper Motor Controlled Valve	28
Servo Controlled Valves with Brass Housing	29
Direct Acting Solenoid Valves	30
Pressure Reducer	31
Pressure Switch	31





Accessories	32
Modular Fitting System	32
CF-System	32
Flow Regulator.	33
Dirt Strainer	33
Inlet Filter	34
Flange	34
Insertable Check Valves	34
Agriculture and Food Processing	35
Drain Valves	35
Vacuum Controlled Drain Valves	36
3/2 Way Vacuum Control Valves (NC)	36
Valves for Agricultural Spraying Systems	36
Vacumaster	37
3/2 Way Pulsator Valves.	37
Environmental Technology	38
Float Valves	38
Linear Float Valves	39
Servo Controlled Valve DN 25	39



Key to product description



Product Picture

Series
Nominal orifice, pressure range, Kv-value @ 1 bar



Expert Knowledge

More than 60 years of experience...

... in valve technology



From an initially family business we have grown internationally into a respected leading manufacturer of valve technology with around 180 staff at our location in Düsseldorf.

With more than 60 years experience, drawn from the wide range of our products out in the market, we develop tailor made innovative valve solutions for the specific needs of our customers.

Our modern manufacturing and testing technologies, in-house production and the multi-industry exchange of experience of the dedicated staff within our Düsseldorf factory enable our customers to stay at the forefront of the marketplace.

Our products are certified to national and international quality standards. Special emphasis is placed on the suitability and certification for drinking water applications and the food industry. By using certified high-performance plastics, the applicable regulations on the lead content in drinking water can be achieved more easily and it also allows to creation of 100 % lead-free solutions, depending on the other components used. Furthermore it ensures a neutral taste.

Independent institutes and our active involvement in various quality standard panels verify that we take these quality demands seriously and our customers can expect nothing less than product quality of the highest level.

More than 60% of total turnover is achieved in our export markets, supported by our sales subsidiaries in Great Britain and France.

Get into the fascinating world of valve technology and be inspired. You will find that a valve is much more than just a "component".



Possible product certifications available on request

Innovation

We provide customized valve solutions...

... with advice and ideas

The process begins with ideas and specification requirements of our customers. We take them up on that and develop together individual concepts and designs using our extensive resources and the skills of our experienced engineers. Ultimately this process results in the development of innovative products and complete systems which exceed usual market standards and expectations.

We have developed thousands of bespoke innovative product systems and specifications in partnership with our customers for a wide range of industry sectors including Medical Technology, Sanitary, Vending, Agricultural and Food Technology as well as Environmental Technology. Our components are used in any application where high reliability counts.

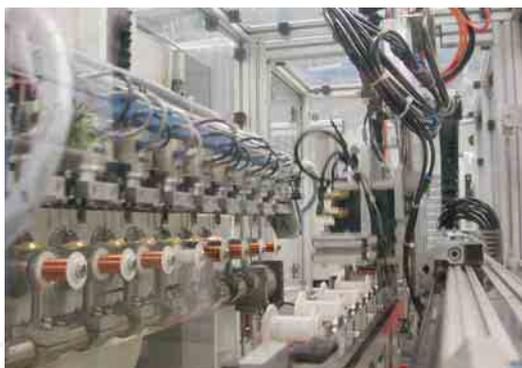
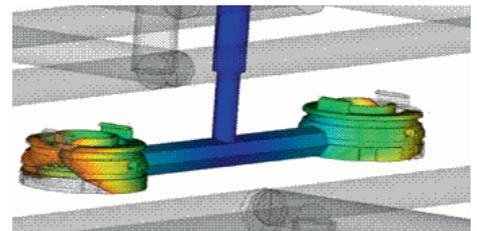
We do not believe in just 'selling a valve'. The integration of our product into a customer's application is the result of detailed analysis of the ambient environment, operating parameters and specification requirements. This enables us to offer components that are individually optimized solutions to suit even the most complex fluid applications.

Such tailored valve design ensures a long product life expectancy and utmost reliability, in turn reducing service costs for our customers significantly. Features such as low power consumption and minimal noise emission levels of our products support an efficient overall design of customers equipment.

The use of modern technologies and techniques for structural analysis, fluid and electromagnetic simulations and rapid prototyping builds quality and reliability into every stage of the development process.

We are constantly researching and evaluating materials, our products and the way they are manufactured. Changes are constantly being implemented to every area to ensure we stay one step ahead and ensure the ongoing outstanding functionality and operational reliability of our products.

From the initial design stage through production to the point of delivery, we promise a service and product that exceeds the expectation afforded by the term, "Made in Germany".





Sanitary

Cartridge valves are specifically developed for applications in sanitary faucets. Their compact size allows them to be easily integrated into the most exciting designs, where style leaves little room for components. In combination with electronically controlled infra-red sensors, complete solutions for use in battery powered, electronically controlled, sanitary faucets. As well as being hygienic these valves also save on water and power consumption.

Cartridge Valves

Compact latching or mono stable cartridge valves, directly screwable into the socket of faucets.

Good resistance against thermal and chemical disinfection (e.g. T-medium 80 °C (176 °F) for 10 minutes).



050-B05.060/050-M05.120
DN 5; 0,5 - 8 bar; 11 l/min @ 1 bar



50.005.101 mono/latching
DN 5; 0,5 - 10 bar; 11 l/min @ 1 bar



50.007.101 mono/latching
DN 7; 0,5 - 10 bar; 23 l/min @ 1 bar



50.009.101 mono/latching
DN 9; 0,5 - 10 bar; 27 l/min @ 1 bar



19.00x.287 mono/latching
DN 0,5; 0 - 10 bar; 0,13 l/min @ 1 bar

Mono stable or latching pilot valve

The miniaturized valve with the approximate dimension of a sugar cube is used as pilot control unit for servo controlled main valves.

The fixing contour can be realised by the customer or can be customized.



19.00x.287 mono/latching
DN 0,8; 0 - 10 bar; 0,31 l/min @ 1 bar

Valve solutions based on the pilot valve

Due to the linear fluid path the integration is also possible into minimum space and already existing installations.

Also available as mono stable version.



51.005.125 mono/latching
DN5; 0,5 - 10 bar; 7,5 l/min @ 1 bar



51.007.125 mono/latching
DN 7; 0,5 - 10 bar; 12 l/min @ 1 bar



50.007.806 mono/latching
DN 7; 0,5 - 10 bar; 16 l/min @ 1 bar



50.013.806 mono/latching
DN 13; 0,5 - 10 bar; 36 l/min @ 1 bar




50.007.800 mono/latching
DN 7; 0,5 - 10 bar; 16 l/min @ 1 bar

Acentric Cartridge Valve

The compact acentric dimension makes it easy to integrate in faucets with limited space.

The plug-in design simplifies installation and service.

Infrared Sensors and Accessories



IRS-WT-x/IRS-UWS-x
Control unit for sanitary faucets, urinals, toilets or showers

Smart infrared sensor for contactless control of the cartridge valve.

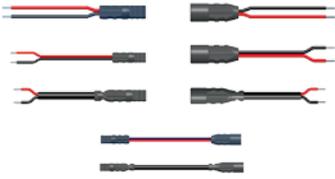
Specific versions for wash basin, urinal, shower and toilet applications are available.



IRS-WT-MxC/-MxF
Control unit for sanitary faucets, urinals, toilets or showers



Remote Control
Detection range, flushing time, ON/OFF



Connectors/Cables
Strand, twin strand or round sleeved cables



Battery cases (Elastomer), Mains or In-Wall Adapter



Integrated Cartridge



Latching versions with integrated infrared sensor for faucets- or urinal applications.



Cartridge Valve Body Adapter



Modular Urinal Valve System



- ▶ For cold water applications
- ▶ With or without integrated strainer and shut-off valve





Vending

Valves for vending applications have to be able to produce a variety of pressure, volume and temperature ranges depending on the type of machine and the drink to be prepared. For the varied needs of the beverage industry we offer traditional dispense valves, as well as, espresso valves, cold drink dispense valves, pumps and complete systems based on our fast coupling components.

These valves are made from high performance plastics which, compared to brass components, are completely lead free and does not effect the taste of the dispensed drink. The surface of the plastic has an increased resistance to the build-up of lime scale. Also, in operation, plastic components cool the hot water at a much lower rate than brass, which deliver the drinks at a more consistent temperature.

Espresso Valves

Any connector combination possible

- ▶ Direct acting
- ▶ Compact design
- ▶ Long term performance capability
- ▶ Suitable for food and hot water appliances
- ▶ Applicable for saturated steam 143 °C (3 bar)
- ▶ Works from zero pressure
- ▶ Easy to assemble and service

	Inlet		Outlet
Push-Fit connection Ø 4 mm			
Push-Fit connection Ø 6 mm			
Clamp connection Ø 6 mm			

2/2 Way, NC



18.003.000
DN 1,5; 0 - 16 bar; 0,9 l/min @ 1 bar



18.004.000
DN 2; 0 - 10 bar; 1,5 l/min @ 1 bar



18.005.000
DN 2,5; 0 - 6 bar; 2,5 l/min @ 1 bar



2/2 Way, NO



18.003.001

DN 1,5; 0 - 10 bar; 0,8 l/min @ 1 bar

Other nominal orifices on request:

DN 1,2

DN 2,0

DN 2,5

3/2 Way



18.002.032

DN 1,2; 0 - 16 bar; 0,6 l/min @ 1 bar



18.003.032

DN 1,5; 0 - 12 bar; 1 l/min @ 1 bar



18.005.032

DN 2,5; 0 - 5,5 bar; 2,2 l/min @ 1 bar





Push-Fit Fitting System FitSys I 8



Modular fitting system made from high performance plastic for the creation of customised fluid paths.

- ▶ High temperature resistance: 98 °C/16 bar or 143 °C/3 bar
- ▶ Assembly without tools
- ▶ Any combination possible and easily expandable
- ▶ NSF- and UL-approved variants available

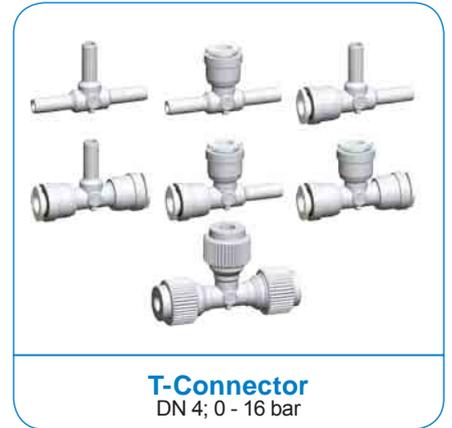
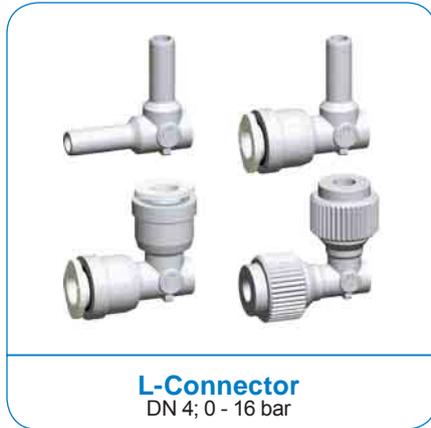
A		Hose stem connection ID Ø 6 mm (0.236 inch)
B		Push-fit stem Ø 4 mm (0.158 inch) (Counterpart of type G)
C		Push-fit stem Ø 6 mm (0.236 inch) (Counterpart of type F)
D		Thread connection G 1/8
E		Clamp connection Ø 6 mm (0.236 inch)
F		Push-fit connection Ø 6 mm (0.236 inch) (Counterpart of type C)
G		Push-fit connection Ø 4 mm (0.158 inch) (Counterpart of type B)
H		Thread connection G 1/8 (Thread insert made of stainless steel)
I		Thread connection G 1/4 (Thread insert made of stainless steel)

Available connector types and base bodies

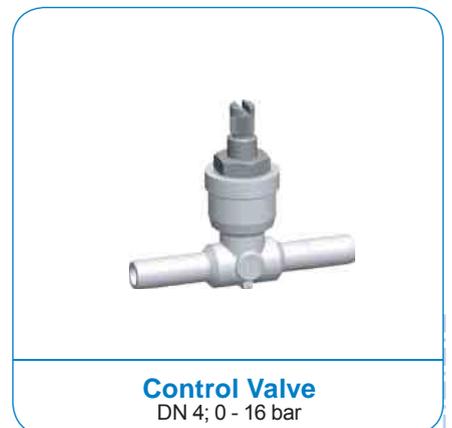
G x		Straight passage Ø 4 mm (0.158 inch)
		Straight passage with reduced orifice possible Ø 0.5 - 4 mm (Ø 0.02 - 0.158 inch)
L x		L-Fitting body Ø 4 mm
		L-Fitting body with reduced orifice possible Ø 1.5 - 4 mm (Ø 0.06 - 0.158 inch)
T		T-Fitting body Ø 4 mm (0.158 inch)
S		S-Closure stop
Y		Y-Fitting for connection type F, G



Available configurations



Functional elements





Dispense Valves

Media separated seat valve for outlet control of liquid dispense in hot or cold drink dispensers.

Two-piece Dispense Valves



Two-piece valve housing. The valve outlet nozzle is removable and allows independent replacement of components.

One-piece Dispense Valves



Cost-effective, one-piece valve housing.



Flow and maintenance optimised dispense valve

- ▶ **M**aximized life, reduces service calls
- ▶ **I**nternally angled inlet nozzle for redirection of air bubbles and reduction of lime scale
- ▶ **E**levated PTFE valve seat to inhibit scale build up
- ▶ **M**embrane "tail" is vibrated during closing to minimize drips. Tail is angled to channel final drip away from critical area (Patented EP 1 286 092).
- ▶ **B**arbed inlet reduces deposits of dirt particles and prevents clogging by scale particles.





Dispense Bank Valves



Two-piece valve housing with and without PTFE valve seat.

A maximum of five output units can be built up.



One-piece valve housing:

- ▶ With and without PTFE valve seat
- ▶ Cost effective

Dispense Valves DN 12 and DN 14



Especially suitable for delivery of larger quantities, e.g. pot or canister filling.



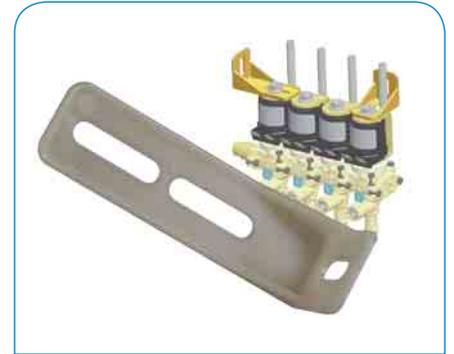
Accessories Dispense Valves



Adjuster Wheel



Fixing Clip



Fixing Bracket, angled



Flange





Soda Valve

**06.003.234**

DN 3; 0 - 7 bar; 5 l/min @ 1 bar

Dispense valve for still or sparkling water. Used, for example, in water mains connected drink dispensers. Equipped with two inlets, each with a manually adjustable compensator to adjust flow rate and bubble size.

Pumps

**41.008.100**

DN 8; 155 mbar; 3,6 l/min @ 24 V DC

**41.008.200**

DN 8; 430 mbar; 12 l/min @ 24 V DC

Pumps increase the pressure and improve dosing consistency. As 12 or 24 V DC version available.

The flow rate can be varied in relation to the voltage applied.

Suitable for hot water up to 95 °C.

**41.005.300**DN 5; 102 mbar; 3,6 l/min @ 16 V DC
or 3,0 l/min @ 26 V DC

Dosing pump allows the dispense valve to be placed up to 0.4 m above the water level in the boiler.



Medical Technology

For years we have produced valve solutions for the particular needs of the dialysis, sterilisation, disinfection, water purification and medical instrument cleaning fields. Where reliability, extended life and high quality are required.

We are expert at designing products with the stringent needs of the medical market in mind. We produce standard products or can tailor a bespoke solution.

High performance, bio-compatible polymers are used in areas of medium contact to ensure good chemical resistance and a long life time.

Dialysis Valves

Housing versions



- ▶ High number of ON-OFF cycles
- ▶ Short cycle times
- ▶ Function and leak tightness in both flow directions
- ▶ Medium separated by PTFE bellow
- ▶ Minimal dead areas in valve body
- ▶ Material valve housing: PEI (PPSU or PEEK on request)
- ▶ Sealing material: EPDM (FKM on request)
- ▶ Other nominal widths, DN 0,8 - 6,0, on request

Further products for medical technology: stainless steel drain valves, see page S. 35.

Vending and Medical Technology



2/2 Way Direct Acting Compact Valves

Without medium separation



Available nominal orifices

- 43.001.142**
DN 1; 0 - 10 bar; 0,5 l/min @ 1 bar
- 43.002.142**
DN 2; 0 - 7,5 bar; 1,8 l/min @ 1 bar
- 43.003.142**
DN 3; 0 - 5 bar; 3,3 l/min @ 1 bar
- 43.004.142**
DN 4; 0 - 3 bar; 4,4 l/min @ 1 bar
- 43.005.142**
DN 5; 0 - 0,8 bar; 5,5 l/min @ 1 bar

Medium separation by membrane



Available nominal orifices

- 43.003.102**
DN 3; 0 - 3 bar; 3,5 l/min @ 1 bar
- 43.004.102**
DN 4; 0 - 2,5 bar; 5 l/min @ 1 bar
- 43.005.102**
DN 5; 0 - 2 bar; 6 l/min @ 1 bar

Medium separation by PTFE bellow



Available nominal orifices

- 43.003.122**
DN 3; 0 - 5 bar; 3,3 l/min @ 1 bar
- 43.004.122**
DN 4; 0 - 4 bar; 4,2 l/min @ 1 bar
- 43.005.122**
DN 5; 0 - 3 bar; 5,5 l/min @ 1 bar

Valve housings from high performance polymer PEI, also available in PPSU.



Modular Compact Valves



43.00x.xx
DN 1,5 - 5

Material: PEI or PEEK

Available connectors:

- ▶ **N**ozzles 6,5 - 12 mm
- ▶ **S**crew thread G 1/8
- ▶ **A**dapter connector for 6 and 8 mm
- ▶ **B**oiler connector
- ▶ **C**losure and cover

Lever Valves



47.002.102 (2/2 way)
DN 2; 0 - 10 bar; 2 l/min @ 1 bar



47.004.102 (2/2 way)
DN 4; 0 - 3,5 bar; 4 l/min @ 1 bar



47.004.103 (3/2 way)
DN 4; 0 - 2,5 bar; 3,5 l/min @ 1 bar

Particularly suitable for the hygienic control of pure or thermally sensitive media.

- ▶ **R**obust design
- ▶ **M**edium temperature 70 °C
- ▶ **E**asily disassembled for cleaning
- ▶ **A**ny fitting position
- ▶ **M**inimised dead areas
- ▶ **G**ood thermal separation: applicable for temperature sensitive media and reduced build up of limescale with aqueous medium

For applications with hot water or saturated steam (98 °C/16 bar or 143 °C/3 bar) all variants are also available made from PPSU with 4 or 6 mm push fit connectors.



47.00x.203 (3/2 way)
DN 3; 0 - 5 bar; 2,3 l/min @ 1 bar
DN 4; 0 - 3 bar; 4,1 l/min @ 1 bar



Pinch Valves



100 % medium separated and therefore particularly suitable for the use with aggressive, particle-loaded or high purity liquids.

- ▶ No valve parts in medium contact
- ▶ Free of turbulences
- ▶ No dead areas
- ▶ Flow in either direction
- ▶ Available for different tubing diameters
- ▶ Tube can easily be changed
- ▶ Chemical resistance depends on the material of selected tube



MEDICAL
TECHNOLOGY



VENDING



16.003.125 (NC)
Silicone tube 2,85x1,1; 60°Sh,
0 - 1 bar; 3,5 l/min @ 1 bar



16.003.225 (NO)
Silicone tube 2,85x1,1; 60°Sh,
0 - 1 bar; 3,5 l/min @ 1 bar



16.003.325 (3/2 way)
Silicone tube 3,0x1,0; 60°Sh,
0 - 1 bar; 2,1 l/min @ 1 bar



16.006.130 (NC)
Silicone tube 6,0x1,0; 60°Sh,
0 - 800 mbar



16.006.230 (NO)
Silicone tube 6,0x1,0; 60°Sh,
0 - 800 mbar



16.006.330 (3/2 way)
Silicone tube 6,0x1,0; 60°Sh,
0 - 800 mbar

Industry



Servo controlled valves are typically applied in automatic control of water into appliances. For secure function a minimum differential pressure of $\sim 0,02$ MPa ($\sim 0,2$ bar) between inlet and outlet is required. As this design uses the medium pressure to operate so the actuator can be relatively small, making the valves compact. The valves are suitable for the control of water, drinking water, as well as physically and chemically similar media.

An advantage of the A. u. K. Müller servo controlled valves is the self-cleaning pin in the pilot port of the membrane, a design that increases the life of the valve. Additionally, the flow design results in low water hammer. Our unique valve design ensures reliable performance as well as high durability for many areas of application.

Servo Controlled Valves, NC

**01.007.111**

DN 7; 0,2 - 10 bar; 11 l/min @ 1 bar

**01.007.126**

DN 7; 0,2 - 10 bar; 11 l/min @ 1 bar

**44.007.126**

DN 7; 0,3 - 10 bar; 10 l/min @ 1 bar

**01.010.115**

DN 10; 0,2 - 10 bar; 21 l/min @ 1 bar

**01.010.125**

DN 10; 0,2 - 10 bar; 21 l/min @ 1 bar

**01.010.126**

DN 10; 0,2 - 10 bar; 21 l/min @ 1 bar



Secure function also under extreme conditions

All servo controlled valves are equipped with a class F coil. Therefore full function is also given at highest environmental temperature (max. 70 °C) and lowest specified voltage (Un + 10 % / - 15 %) as well as maximum pressure (10 bar) and maximum medium temperature (90 °C).

Tested according to DIN EN 60730. VDE approved variants are available.



Possible connectors for servo controlled valves

For inlet and outlet the following versions are offered:

- ▶ **Threads:** G 3/8, G 3/4, G 3/4 clamping nut, G 1/4 x 10 female, G 1/2, G 1, .75 - 11,5 NH
- ▶ **John-Guest®:** 3/8" JG, 1/2" JG
- ▶ **Nozzles:** 1/2", 3/4", 3/8", Ø 15 (compatible to quick fit connector system 11.000)

More on request.



Typical material

- ▶ Valve housing: PA66; PA6/6, PPE and PEI on request
- ▶ Plunger guide, plunger and spring: stainless steel
- ▶ Membrane and sealing: EPDM; NBR and VMQ on request
- ▶ Coil coating: PBT, PET or epoxy resin
- ▶ Filter: stainless steel (in inlet), POM

Typically the valves are suitable for hot water up to 90 °C.





Aquastop



Aquastop 13.007.226
DN 7; 0,2 - 10 bar; 8 l/min @ 1 bar

Two single servo-controlled valves (NC) connected in series, in order to prevent water damage.

- ▶ **H**igh reliability as both valves are switched simultaneously
- ▶ **C**onnection to water supply (swivel nut) possible without tool
- ▶ **W**ater supply tube routed in flexible corrugated tube
- ▶ **D**esigned for free outlet
- ▶ **F**lexible corrugated tube to guide leakage medium to directed recirculation
- ▶ **P**re-filtration in inlet by stainless steel filter
- ▶ **F**low regulator retainer in inlet
- ▶ **S**uitable for warm water up to 60° C (EU, UK), 90° C (USA)

Servo Controlled Valve, NO



36.010.126
DN 10; 0,2 - 8,5 bar; 20 l/min @ 1 bar

Single chamber straight valve, normally open (NO). Also available in the housing variants of NC servo valves, with various connectors.

Suitable for hot water up to 90 °C.



Flow Meter Turbine



The combination of a flow meter and a solenoid valve in one compact unit enables, with suitable electronics (provided by customer), the accurate metering, dosing and control of a liquid together with the ability to interrupt the flow.

Furthermore water hammer is reliably prevented by the integrated servo controlled valve.

Depending on the orifice used, different measuring ranges can be achieved.

Servo-direct Stepper Motor Controlled Valve



For the design of controlled fluidic paths, for continuous regulation of flow rates or for dosing of constant volumes.

- ▶ Stepper motor driven
- ▶ Continuous operation
- ▶ No water hammer
- ▶ Medium separated by PTFE bellow
- ▶ Medium temperatures up to 80°C





Servo Controlled Valves with Brass Housing



01.010.511
DN 10; 0,2 - 10 bar; 25 l/min @ 1 bar



01.01x.521

Available nominal orifices

01.010.521
DN 10; 0,2 - 10 bar; 21 l/min @ 1 bar

01.013.521
DN 13; 0,2 - 10 bar; 36 l/min @ 1 bar



01.010.522
DN 10; 0,2 - 10 bar; 21 l/min @ 1 bar



01.01x.523

Available nominal orifices

01.010.523
DN 10; 0,2 - 10 bar; 20 l/min @ 1 bar

01.013.523
DN 13; 0,2 - 10 bar; 36 l/min @ 1 bar

01.017.523
DN 17; 0,3 - 10 bar; 78 l/min @ 1 bar



01.017.521
DN 17; 0,3 - 10 bar; 78 l/min @ 1 bar



01.017.524
DN 17; 0,3 - 10 bar; 76 l/min @ 1 bar



01.021.521
DN 21; 0,3 - 10 bar; 67 l/min @ 1 bar

Brass material corresponds to the metal recommendation of the UBA.



Direct Acting Solenoid Valves

Direct acting solenoid valves are typically applied where fast switching of the valve is required for dosing tasks and low pressure is involved.



01.010.114
DN 10; 0 - 60 mbar



01.010.124
DN 10; 0 - 60 mbar



01.010.127
DN 10; 0 - 60 mbar



01.013.127
DN 13; 0 - 60 mbar

- ▶ Internal plunger assembly medium separated by membrane
- ▶ Suitable for hot water up to 98 °C
- ▶ Available with coil system in all common voltage and frequency ranges
- ▶ Housings are based on servo controlled valves therefore all types of connection are possible (see page 25)

Without medium separation:



24.006.115
DN 3; 0 - 10 bar; 3 l/min @ 1 bar



24.006.126
DN 3; 0 - 10 bar; 3 l/min @ 1 bar



24.006.225
DN 3; 0 - 10 bar; 3 l/min @ 1 bar



Pressure Reducer



42.008.126
DN 8; inlet pressure max. 16 bar,
outlet pressure 1,2 - 6 bar

Converts the inlet pressure into a lower, constant outlet pressure regardless of inlet pressure fluctuations in order to protect equipment from high or inconsistent incoming medium pressure. Outlet pressure adjustable and can be preset in factory.

100 % lead free.



42.010.000
DN 10; inlet pressure 3 - 10 bar,
outlet pressure 1 - 8 bar

Pressure Switch



30.010.126
DN 10; 0 - 10 bar; 11 l/min@ 1 bar

Pressure dependent electrical switch (changeover), which can switch ON or OFF when the response pressure is reached. Therefore it reliably indicates the presence of the medium pressure, e.g. for protection against water shortage.

- ▶ **Response pressure:**
0,3 - 0,5 bar
- ▶ **Optional:** 0,9 - 1,3 bar



30.010.215
DN 10; 0,2 - 10 bar; 17 l/min@ 1 bar



Accessories

Modular Fitting System



Modular fitting system based on the popular John Guest push fit cartridge for 15 and 18 mm OD tubing. Combined with solenoid valves of 10 and 13 mm nominal bore, for simple creation of complex fluid delivery systems.

- ▶ L, T and X-couplings
- ▶ Assembly without tools
- ▶ Anti-twist protection
- ▶ Suitable for warm water up to 65 °C

11.000
DN 10/13; 10 bar

CF-System



For distribution and merging of liquids.

- ▶ Medium temperature up to 90 °C
- ▶ Operating pressure up to 10 bar
- ▶ Burst pressure of >50 bar

Manifolds DN 13
DN 13; 0 - 10 bar



Manifolds DN17
DN 17; 0 - 10 bar



For direct connection of valves and tubes with sealed front side G 3/4 female thread (thread length 10 mm). Swivel nut manually releasable.

Approvals of the materials in contact with medium for hot drinking water, 85 °C.

Hose connection
G 3/4; 0 - 10 bar



Flow Regulator



MR 04, Ø 19 mm

1 - 10 bar; 5 - 20 l/min @ 4 bar;
Tm: 65 °C max.



MR 05, Ø 9,5 mm

1 - 10 bar; 0,5 - 9 l/min @ 4 bar;
Tm: 65 °C max.



MR 06, Ø 19 mm

1 - 10 bar; 0,5 - 9 l/min @ 4 bar;
Tm: 65 °C max.



MR 07, Ø 10 mm

1 - 10 bar; 0,5 - 9 l/min @ 4 bar;
Tm: 65 °C max.



MR 12, Ø 9,5 mm

1 - 10 bar; 4/5 l/min @ 4 bar;
Tm: 90 °C max.



MR 19, Ø 19 mm

1 - 10 bar; 3,5 - 22 l/min @ 4 bar;
Tm: 98 °C max.

Dirt Strainer



12.010.300/~.500

DN 10; max. 10 bar; 20/17 l/min @ 1 bar



12.017.400/~.500

DN 17; max. 10 bar; 79/70 l/min @ 1 bar



12.017.800 (three stages filter)

DN 17; max. 10 bar; 51 l/min @ 1 bar



Inlet Filter



POM, G 3/4
Mesh size 0,45; 65 °C



Stainless steel, G 3/4, G 1/2, G 3/8
Mesh size 0,25; 90 °C



Stainless steel, G 3/4
Mesh size 0,5; 90 °C

Flange



PE, stainless steel, G 3/4
Mesh size 0,25; 65 °C



Flange

- ▶ Flange for simple mounting of valves
- ▶ Secure fixing of valves in housings
- ▶ Mountable to fixing bracket
- ▶ Applicable with servo controlled valves, float valves and dirt strainer

Insertable Check Valves



Check Valve
DN 6; max. 16 bar; 12 l/min @ 1 bar



Check Valve
DN 10; max. 16 bar; 35 l/min @ 1 bar



Check Valve
DN 12; max. 16 bar; 38 l/min @ 1 bar

Agriculture and Food Processing



Within the field of agriculture our products are used in milk tanks, milking machines as well as in cleaning and disinfection plants for the dairy farm. Particularly for the milking process we produce regulation valves which guarantee the constant vacuum supply.

In addition our valves control the water supply in animal feeding and irrigation.

Also the applications in food processing are many. For example our valves control the water supply in steam appliances, baking ovens, ice machines for flake ice and cubes as well as temperature controlled installations and in food warmers (see also products in the category industry).

It is necessary for us to adhere to the strict regulations and laws in this sensitive area. Only food safe and harmless materials are used in our components, so that the food quality is not affected.

Drain Valves



- ▶ **M**aterial: PPE (Tm: 98 °C), PVDF (Tm: 50 °C) or stainless steel (Tm: 98 °C)
- ▶ **M**oisture-proof by potted coil
- ▶ **C**able or mounted connector
- ▶ **P**rotection type: IP68 and IP65



Optional with:
Manual emergency override (only NC) and
flush spout on valve body.





Vacuum Controlled Drain Valves



04.040.113 (2/2 way)
DN 40; 0 - 600 mbar;
Control vacuum 30 - 60 kPa abs.



Soon also available
as NC/NO-types
with DN 50.

04.040.115 (2/2 way)
DN 40; 0 - 200 mbar;
Control vacuum 10 - 80 kPa abs.



Soon also available
in DN 50.

04.040.114 (3/2 way)
DN 40; 0 - 150 mbar;
Control vacuum 20 - 60 kPa abs.

3/2 Way Vacuum Control Valves (NC)



26.005.115
DN 5; Vacuum range 40 - 80 kPa abs.



26.008.126
DN 8; Vacuum range 40 - 80 kPa abs.

When the valve is energized vacuum is applied to the point of use. In de-energized state the system is under atmospheric pressure, then the point of use is fully separated from the vacuum resulting from the ventilation through the control valve.

Suitable for vacuum controlled drain valves.

Valves for Agricultural Spraying Systems



19.00x.287
DN 0,5/DN0,8; 0 - 10 bar; 0,13/0,
31 l/min @ 1 bar



90.00x.100
DN 4; 0 - 8 bar; 3,5 l/min @ 1 bar

Suitable for dosing in spray systems.

Small dimensions and low weight allow these valves to be connected directly to the spray nozzles.



Vacumaster

The Vacumaster is used for milking installations with a unregulated or regulated vacuum pump. In the first case the Vacumaster keeps the milking vacuum constant within narrow limits of ± 1 kPa. In the second case the Vacumaster is used for fine adjustment.

The function of the Vacumaster is based on a low-inertia differential pressure principle with high control of the speed and accuracy which requires no electrical power.



23.015.100

Vacuum control range 35 - 60 kPa;
Flow range 100 - 600 l/min



23.020.100

Vacuum control range 35 - 60 kPa;
Flow range 450 - 2800 l/min



23.025.000

Vacuum control range 35 - 60 kPa;
Flow range 700 - 4000 l/min

3/2 Way Pulsator Valves



25.008.600
DN 8



25.010.600
DN 10

The 3/2-way pulsator valves are used in combination with the Vacumaster in order to control the vacuum in automatic milking processes.

The vacuum range is 30 - 60 kPa.



Environmental Technology

Valves are required in applications such as rain water harvesting, water treatment and irrigation systems to regulate and control the flow of water.

For tanks, float valves are used, where the buoyancy of the float closes or opens the servo-controlled valve, so that a constant water level is maintained.

Float Valves



Available as single chamber valves, either as straight through or inlet at 90° to the outlet version with various connector options.

Float material

- ▶ **Stainless steel** for max. 90 °C
- ▶ **PE-foam or PPH** for max. 60 °C
- ▶ **Polystyrene** for max. 30 °C



21.013.110

DN 13; 0,3 - 10 bar; 34 l/min @ 1 bar
Patent-registered: EP 1 469 241



21.013.126

DN 13; 0,3 - 10 bar; 28 l/min @ 1 bar



21.017.126

DN 17; 0,3 - 10 bar; 53 l/min @ 1 bar

Linear Float Valves



21.013.126 lin

DN 13; 0,8 - 10 bar; 25 l/min @ 1 bar
Patent-registered: EP 1 626 215



21.017.126 lin

DN 17; 0,8 - 10 bar; 50 l/min @ 1 bar
Patent-registered: EP 1 626 215

For narrow or deep tanks, uses a linear guide for the float.

Servo Controlled Valve DN 25



14.025.126

DN 25; 0,3 - 10 bar; 175 l/min @ 1 bar

Water inlet valve with nominal width DN 25 for safe media inlet in irrigation, rain water utilisation or water treatment systems. Also applicable for process and cooling water.

- ▶ Flow limitation by adjustable stroke of membrane
- ▶ Lockable manual actuation
- ▶ Valve housing with female metal thread in common dimensions



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Possible product certifications available on request

