



Dear Sir or Madam,

Change and renewal are constants in life – true to this principle, Mankenberg has been your experienced partner for industrial valves for nearly 140 years. Our valves are important components for machines and plants in which pressure or level are to be reliably controlled.

The secret to our success? Mankenberg is a family business with a great deal of specialized technological knowledge that has been increased and refined through many decades. Our team does not rest on its achievements, but reviews processes and procedures, building on existing strengths and further developing all that no longer fits.

We remain curious in the world of digital transformation - well aware that we are currently dealing with the most profound change in our private and business

world. But we do not want to simply react, we want to actively shape the digital progress.

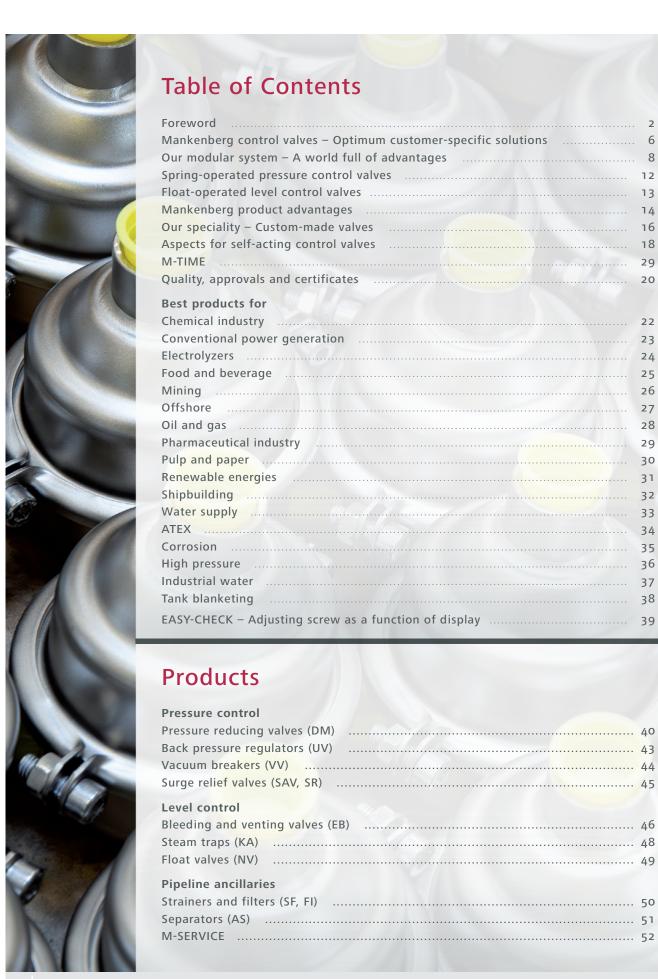
It is you – our customers – who provide the inspiration. Digitization is enabling greater individualization towards tailored solutions. It supports our striving for sustainability and creates scope for the development of modular product families. Digitization shortens production cycles and contributes to optimized production control. This saves us valuable time – which also results in optimal delivery times for your valve.

In this new edition of our short catalog, you will find many classic products, but also our newly developed modular industrial valves. We wish you interesting reading.

DR. STEFAN NEHLSEN Managing director

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Mankenberg control valves -Optimum customer-specific solutions

As a leading manufacturer of self-acting control valves, Mankenberg combines the tradition of an owner-managed industrial company with innovative spirit and entrepreneurial vision and decidedly boosts its own agile digital transformation. Mankenberg is a specialist for stainless steel and special materials in deep-drawing processes. The portfolio offers flexible standard valves and project-related special valves, from large series to small quantities and individual production, and is being further developed. In Luebeck, we set the course for the future.













Luebeck

(Germany)













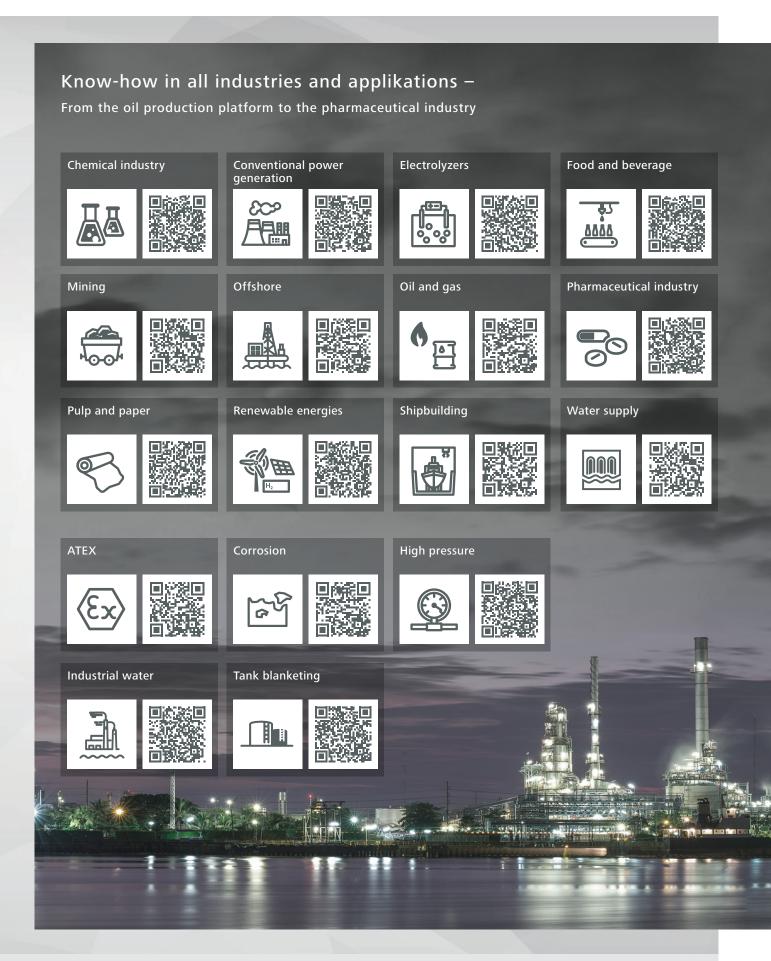


Development, production and sale of industrial valves

From standard to innovative

tailor-made special valves





Our modular system – A world full of advantages

Every industry has individual requirements for its plant components. Material, surface quality, ATEX approval or corrosion resistance are just some of them. No matter whether for high pressure or hygienic applications: Valves from Mankenberg reliably control pressure or level in the plant. A flexible and worldwide unique modular system of deep-drawn stainless steel components forms the basis of this range of products. At Mankenberg, this system has a decades-long tradition and was also the first step towards modular design thinking.

The modular system is simple: A mass production method combined with individual connections provides the greatest possible flexibility ensuring that a standard valve is ready for shipment two working days after order confirmation. In addition, special solutions can be offered at an optimal price / performance ratio.



Keeping pace

This also means maintaining the overview. One and the same valve type, the same body part and a vast number of different connection types, such as sockets, flanges or clamps. They result in a large number of similar valves that are so different at the same time. One standard valve provides a tailor-made solution for the customer.









Modular design is our main principle

The basic components for our valves are the pots that we manufacture from deep-drawn stainless steel. The special feature of deep-drawing at Mankenberg is that a mass production procedure is used even for special designs with very small order quantities. The first step is always the manufacture (or the selection) of the suitable tool for the deep-drawing process.

The required form of the pot is shaped from high-quality stainless steel sheets through a multi-step manufacturing process. The multiple use of one pot type will yield a wide range of combinations. The same component can be used for various final products. Similar final products can be employed for a wide variety of applications by replacing single components such as the cone, diaphragm or bonnet and using welded-on standard parts and precision castings.

This is exactly what the modular design provides: a combination of flexibility, quality and performance.



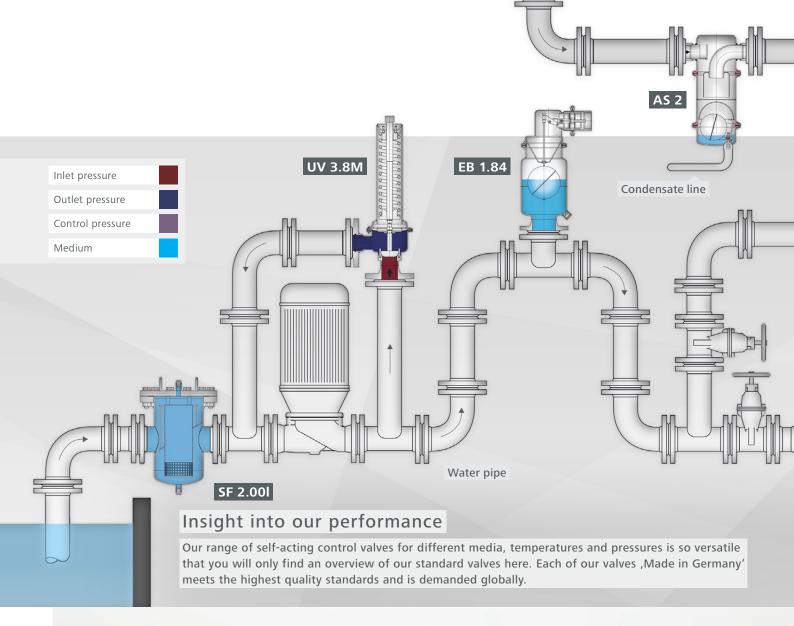


One pot and many applications

One simple pot is the best example to demonstrate our modular system. It is the basic body for separator AS 2 as well as for a pressure reducing valve DM 462, a strainer SF 6.00 and also for a bleeding and venting valve EB 1.74 or EB 1.12 or EB 3.52.

One and the same component can be used for various final products. It is the multiple use of a deep-drawn pot for various valves that allows applying a cost-effective mass production technique such as deep-drawing. At the same time the modular system provides a large number of possible combinations and flexibility for customerspecific solutions as well as fast delivery times.





Spring-operated pressure control valves

Tasks / service areas

Pressure reducing valves

Pressure reducing valves reduce a high and frequently fluctuating pressure to an adjustable constant pressure downstream of the valve. A spring keeps the valve open and this closes as the outlet pressure rises.

DN	15 - 800	PN	1 - 400
G	1/2 - 2	Т	-60 - 400 °C
p ₂	0.002 - 160 bar	K _{vs}	0.05 - 2,100 m ³ /h

Vacuum breakers

Vacuum breakers protect vessels and pipelines against vacuum. A vacuum can build up when a system is being drained, when it cools down or when a pump fails. Vacuum control valves are pressure reducing valves or back pressure regulators which control pressures below 1 bara.

DN	15 - 250	PN	16 - 40
G	1/2 - 2 ½	Т	-60 - 250 °C
p ₂	0.05 - 0.95 bar (abs.)	K _{vs}	0.2 - 388 m³/h

Back pressure regulators

UV

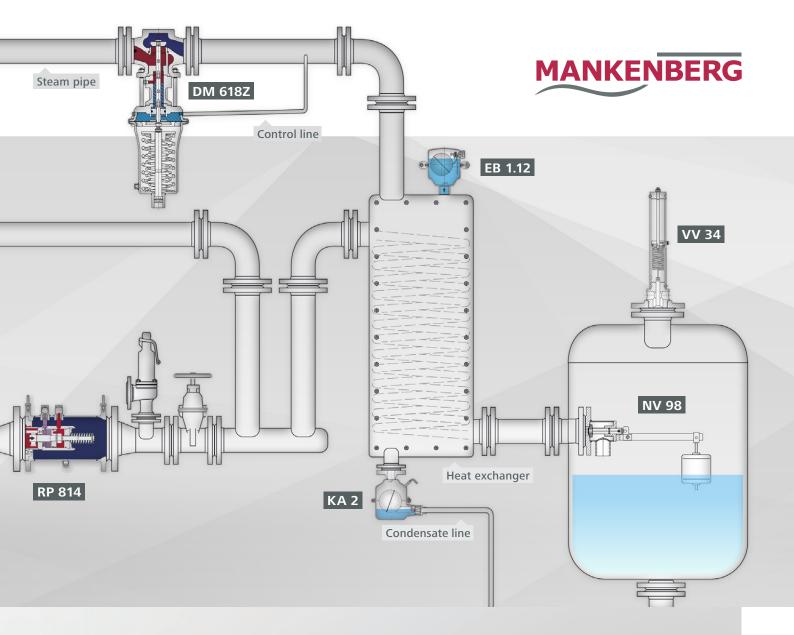
Back pressure regulators control an adjustable constant pressure upstream of the valve. A spring keeps the valve closed. As the inlet pressure rises, the valve opens.

DN	15 - 800	PN	1 - 250
G	1/2 - 2	Т	-60 - 400 °C
p ₂	0.002 - 220 bar	K _{vs}	0.05 - 2,100 m ³ /h

Differential pressure control valves

Differential pressure control valves regulate a pressure depending on a second varying pressure without external measurement sensors.

DN	15 - 150	PN	1 - 400
G	1/2 - 2	Т	-45 - 200 °C
Δр	0.002 - 25 bar	K _{vs}	0.05 - 160 m³/h



Float-operated level control valves Tasks / service areas

Bleeding and venting valves

ΕB

Bleeding and venting valves remove or admit air or gases automatically from/to tanks, vessels or pipelines. They are float-controlled valves which close as the liquid level rises and open as the level falls.

DN	15 - 200	PN	16 - 63
G	1/2 - 2	Т	-60 - 400 °C
p ₁	0 - 63 bar	Q	up to 9,670 m ³ /h

Steam traps

KA

Steam traps automatically drain condensate without loss of steam or gas. They operate instantaneously and are not affected by back pressure or pressure fluctuations. They do not require an external energy input.

DN	15 - 50	PN	16 - 63
G	1/2 - 1	Т	300 °C
р	0 - 60 bar	Q	3,700 m³/h

Float valves

NV

Float valves automatically control liquid levels in sealed or open (non-pressurised) tanks and vessels without requiring external energy. The float registers the liquid level and directly controls the valve via a lever. A change in the liquid level immediately results in a changed flow volume.

DN	15 - 150	PN	16 - 40
G	3/8 - 2	Т	-60 - 300 °C
р	0 - 16 bar	K _{vs}	0.2 - 160 m ³ /h

Separators

AS

Separators separate media of different states of aggregation.

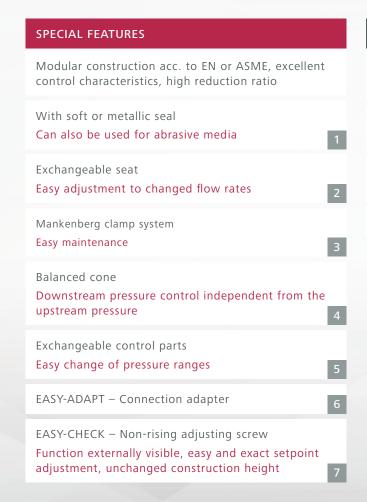
DN	15 - 50	PN	16
G	1/2	Т	200 °C
р	0 - 16 bar	Q	up to 73 m³/h

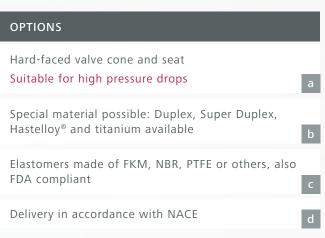
Mankenberg product advantages

Our valves are true all-rounders. For our customers, however, it is the essence of all properties that counts so that they can choose the right valve for their application. Therefore, Mankenberg offers overviews with the product advantages of the most popular valves.

Example DM 555

Mankenberg advantages at a glance



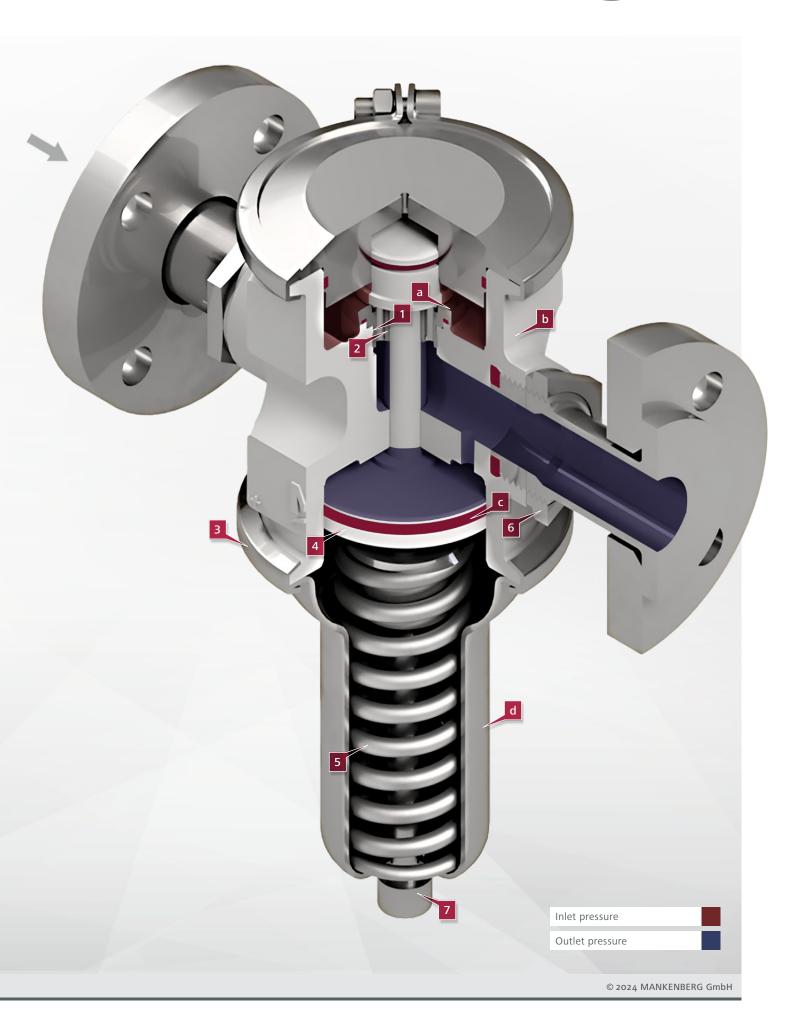




Experience and know-how

Guaranteed reliability and ability to deliver.





Our speciality -**Custom-made valves**

Custom-made special solutions are developed individually for the respective customer system. For each enquiry Mankenberg checks the requirements of the plant and then recommends the appropriate technical solution. Even for requirements such as vacuum, volume or differential pressure control our engineers will develop a tailor-made special solution. This can range from a slightly modified valve series to a complete system.

Custom-made special solutions

Special materials

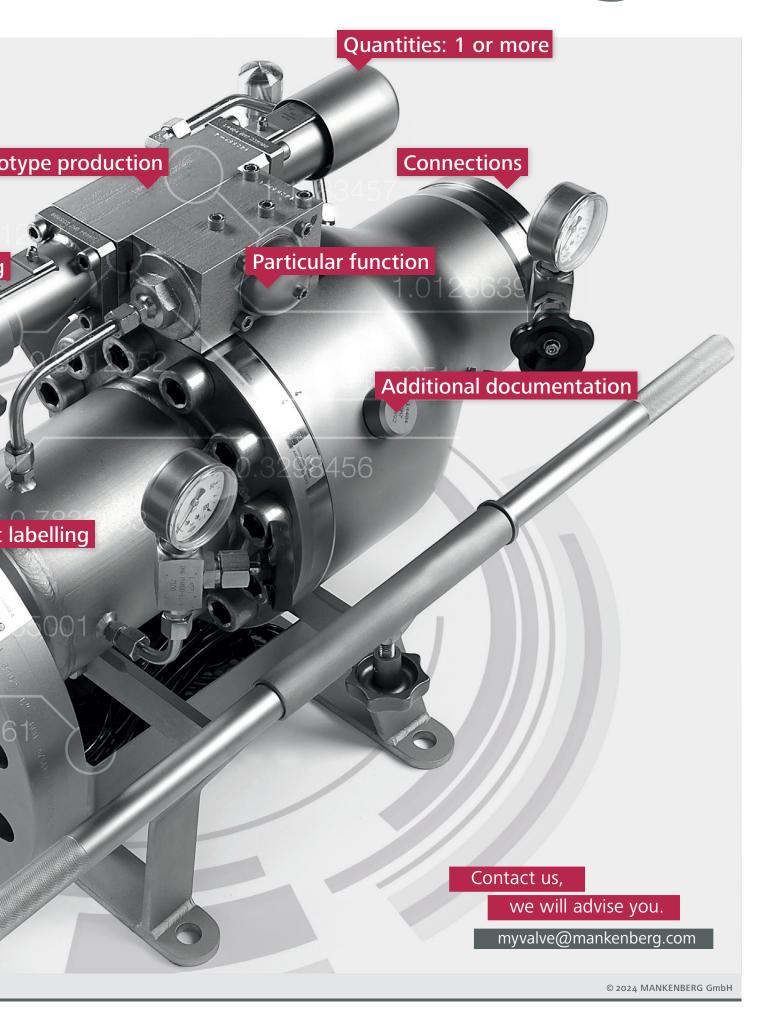
Standards and testing regulations

Special inspections and certificates



Produc





Self-acting control valves – Guarantor of safety in plant and machinery operation

Industrial valves are vital components of plants and machines in that they perform necessary regulating and control tasks. When plants are planned and designed, their various elements are not considered in complete isolation from one another, but are instead selected to complement each other in their intended purpose. Therefore, the optimal valve selection is particularly important.

Self-acting control valves have special advantages with regards to the smooth interaction of all plant components.

Aspect No. 1 - Safety

- » Proper functioning, even in the event of a power failure
- » Proven functionality based on more than one hundred years of experience
- » No risk regarding maloperation
- » Quick response behaviour of self-acting control valves
- » Insusceptibility to computer viruses

Aspect No. 2 - Costs

- » Low assembly and maintenance costs
- » No external energy supply required
- » Long operational lifespan with the proper selection of the valve

Aspect No. 3 - Assembly and operation

- » Easy installation of the valves
- » Low net weight and compact design
- » Valves can be operated even with poor infrastructure
- » No cabling or updates required
- » Particularly sturdy and maintenance-friendly

Aspect No. 4 – Sustainability

- » Resource-saving thanks to independence from external energy
- » Long operational lifespan with the proper selection of the valve
- » Recyclability of the used materials









READY FOR DISPATCH WITHIN 2 WORKING DAYS

THE 48H PROMISE

- » Ready for dispatch within 48h after order confirmation, EXW Luebeck, Germany
- » For specified standard products
- » Valid from Monday to Thursday (public holiday in Germany excluded)
- » Material certificate EN 10204/3.1 are available upon request



READY FOR DISPATCH WITHIN 15 WORKING DAYS

ADAPTED TO YOUR APPLICATION

- » Assembled-to-the-order: delivery time within 15 working days, EXW, Luebeck, Germany
- » Modification of Mankenberg standard valves adapted-to-purpose:
 - » Connections: flanges according to EN 1092 and ASME B16.5, BSP and NPT threads
 - » Sealings and diaphragms: EPDM, FKM, PTFE, FEPM
 - » Accessories available: leakage line connection, gauge connection, internal sensing
- » Specific documentation upon request:
 - » Material certificates EN 10204/2.1, EN 10204/3.1
 - » FDA (Food and Drug Administration)
 - » USP Class VI (United States Pharmacopeia)



CUSTOMIZED AND ENGINEERED SOLUTIONS

EXPERTISE AND RELIABILITY UPON REQUEST

- » Customized and engineered solutions adapted to your application
- » Additional documentation and specification
- » Delivery time upon request



FOR EVEN FASTER SOLUTIONS

WHEN DELIVERY TIME IS MOST IMPORTANT

» Express handling and shipment of any order upon request for the entire scope of supply

Quality, approvals and certificates



Our quality is your safety

Industrial valves perform key functions in plants and pipelines and therefore have a considerable influence on customers' own processes: accuracy of control, reliability and safety are paramount.

Quality control at Mankenberg is thus a central theme which runs through all aspects of the production process. At Mankenberg, quality control is a separate team whose members are directly answerable to the Managing Director. Everything that leaves our production halls has to be checked by the experienced hands of our quality control team.

But if we are honest, even these high standards are not enough to satisfy us when it comes to quality. All our suppliers are DIN EN 9001 certified and are subject to a strict evaluation system. It is included in the closed loop improvement process that we set up ourselves. When it comes to supplier relationships, feedback functions in both directions. This enables us to increase the degree of mutual transparency and confidence.



Approvals and certifications

- » AD2000-Merkblatt HPo
- » Production quality assurance (Module D + D1) according to directive 2014/68/EU
- » DIN EN ISO 3834-2
- » Certificate for the management system according to DIN EN ISO 9001: 2015
- » Certificate for the management system according to DIN EN ISO 14001
- » Quality assurance according to nuclear standard KTA 1401
- » Certificate for the occupational health and safety management ISO 45001 (BS OHSAS 18001)

Inspection certificates and material certificates

- » EN 10204/2.1
- » EN 10204/3.1)
- » EN 10204/3.2

Acceptances

- » German Technical Monitoring Association (TÜV)
- » Lloyd's Register of Shipping (LRS)
- » Bureau Veritas (BV)
- » DNV•GL
- » Registro Italiano Navale (RINA)
- » American Bureau of Shipping (ABS)

Welding procedure tests

- » AD2000-HP2/1
- » DIN EN ISO 15614-1
- » DIN EN ISO 15614-5
- » Others on request

Qualified welders

- » AD2000-HP3
- » DIN EN ISO 9606-1
- » DIN EN ISO 9606-5
- » DIN EN ISO 14732

On request

- » NORSOK (Norsk Sokkels Konkuranseposisjon)
- » NACE (National Association of Corrosion Engineers)
- » ANSI (American National Standards Institute)
- » ASME (American Society of Mechanical Engineers)
- » API (American Petroleum Institute)
- » JIS (Japan Industrial Standard)

Chemical industry

The chemical industry is an important supplier of basic and intermediate products for downstream sectors, e.g. automotive engineering or textile production. The valves in the plants must be resistant to chemicals and temperatures, explosion-proof, with a long operational lifespan and easy to clean.

Available seal materials

- » EPDM
- » FPM, FKM, Viton®
- » FFKM / FFPM, Kalrez®, ISO-Last®
- » PTFE, Teflon®
- » VA, Graphite
- » Other seal materials upon request



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High pressure valve for small to medium flow rates DM 510 Page 41	Millibar control valve for small to medium flow rates UV 3.0 Page 43	
Valve for small to medium flow rates DM 555 Page 41	Millibar control valve for medium to high flow rates UV 3.9 Page 43	
Millibar control valve for medium to high flow rates DM 586 Page 41	Valve for medium to high flow rates UV 5.1 Page 44	
Valve for medium to high flow rates DM 652 Page 42	Start-up bleeding valve for small to medium flow rates EB 3.52 Page 47	



Conventional power generation

Conventional power generation produces electricity by converting primary energy, for ex. chemical energy from fossil fuels or nuclear energy, into usable electrical energy. Industrial valves are used peripherally, for ex. in flushing water or sealing gas systems.

Conventional power





Typical applications in the CCGT

- » Gas turbine supply (FGSR, FGPS, FOPS, DFM, PWS, WIPS)
- » Supply to the generator
- » Feed water circuit
- » District heating water
- » Lube oil supply
- » Degassing / filtration
- » Oil cooler







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DM EOE			

Valve for small flow rates

DM 505	Page 41	
High processes valve for high to ve	w. biab	





High pressure valve for high to very high flow rates

RP 810 ECK Page 42

alve for high to very high flow rate	es	回始	
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RP 814 Page 42

UV 3.5 Page 43

Valve for medium to very high flow rates

Valve for small flow rates

UV 4.1 Page 23











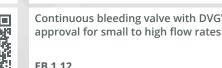






UV 5.1











High pressure valve for small to medium

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Vacuum breaker for medium to very high flow rates

Page 44 Continuous bleeding valve with DVGW

EB 1.12 Page 46

Combined bleeding valve for medium flow rates

EB 1.74 Page 46



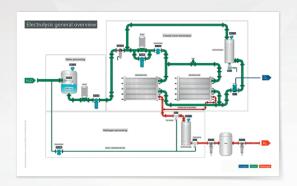


Electrolyzers

Electrolyzers consist of two electrodes, a direct current source and an electrolyte. They split chemical compounds by means of electric current, e.g. water into hydrogen and oxygen. The hydrogen obtained can be used as an energy carrier or alternative fuel.

Electrolysis general overview

You can find an overview on our electrolyzers iindustry page, which can also be easily accessed via the QR code.





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Food and beverage

In industrial production, food and beverages are processed in closed systems using water, oils or steam as energy sources. Strict quality and hygiene regulations apply to these processes. Valves of high-quality stainless steel 1.4404 / 316L are suitable for this purpose.



Typical applications in the secondary circuit

- » Filling (for ex. with CO₂)
- » CIP/SIP processes
- » Steam generation and distribution
- » Pasteurization
- » Tank blanketing
- » Water treatment



Valve for ultrapure media and mediu flow rates	ım		Valve for medium to high flow rates		
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Valve for ultrapure media and mediu high flow rates			Millibar control valve for small to me flow rates		
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Valve for small to medium flow rates	Page 41		Liquid separator with integrated trap	Page 51	

Mining

Fossil energy sources (coal, crude oil, natural gas) and rare earths are extracted in opencast mines or underground. Mining processes take place under extreme ambient conditions. The release of dusts or gases requires valves resistant to high temperature, safe to operate and of low maintenance.

Advantages

- » Long operational lifespan
- » Sturdy valve mechanism
- » Low maintenance
- » Stainless steel (1.4404 / 316L), corrosion-resistant
- » Self-acting, no external energy supply required
- » High pressure differences possible in one step





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High pressure valve for medium flow rates DM 620	to high	High pressure valve for smal flow rates UV 8.2	ll to medium Page 44	
High pressure valve for high to v flow rates	ery high	Surge anticipation valve for high flow rates SAV 820E	high to very Page 45	
High pressure valve for high to v flow rates RP 810 ECK	ery high Page 42	Combined bleeding valve for and sewage EB 1.84	dirty water	



Offshore

Offshore structures are drilling rigs or platforms for oil and gas production or wind turbines for power generation. They are exposed to severe weather in corrosive maritime atmospheres. The materials of the valves used are selected with corresponding attention to detail.



Available corrosion-resistant metals

- » Stainless steel (1.4404, 1.4571)
- » Duplex (1.4462)
- » Super Duplex (1.4410, 1.4501)
- » Cronifer 1925hMo (1.4529)
- » Alloy 904L (1.4539)
- » 254 SMO® (1.4547)
- » Hastelloy® (2.4610)
- » Titanium (3.703





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Valve for medium to high flow rates DM 652	Page 42	Vacuum breaker for medium to very flow rates VV 34	high Page 44	
Millibar control valve for small to med flow rates DM 762	lium Page 42	Continuous bleeding valve with DVG approval for small to high flow rates EB 1.12	W Page 46	
Millibar control valve for medium to hi flow rates UV 3.9	igh Page 43	Start-up bleeding valve for small to n flow rates EB 3.52	nedium Page 47	

Oil and gas

As fossil fuels such as oil and gas have become increasingly scarce, extraction technologies are more complex. In the three main oil extraction processes, upstream, midstream and downstream, self-acting valves ensure efficient operation, e.g. in pump protection or tank blanketing.

Oil and gas

Typical application areas

You can find an overview on our Oil and gas industry page, which can also be easily accessed via the QR code.









High pressure valve for small to medium flow rates DM 510 Page 41	Millibar control valve for medium to very high flow rates RP 840 Page 42	
Millibar control valve for medium to high flow rates DM 586 Page 41	Surge relief valve (peak load) for very high flow rates SR 6.2 Page 45	
Millibar control valve for small to medium flow rates DM 755 Page 42	Millibar control valve for small to medium flow rates UV 3.0 Page 43	
High pressure valve for high to very high flow rates RP 810 Page 42	Millibar control valve for medium to high flow rates UV 3.9 Page 43	
High pressure valve for high to very high flow rates RP 810 ECK Page 42	Valve for medium to high flow rates UV 5.1 Page 44	
Valve for high to very high flow rates RP 814 Page 42	Combined bleeding valve for small to very high flow rates EB 6.54 Page 47	



Pharmaceutical industry

In the pharmaceutical industry, strict hygiene, safety and corrosion resistance requirements apply in order to exclude microbiological contamination. Equipment components must be easy to clean and sterilizable between production runs (CIP/SIP capable).

Pharmaceutical industry

Benefits

- » Self-draining
- » Installation in descending pipes possible
- » Electro-pneumatic control
- » External stem guide
- » Vacuum-tight
- » Different surface finishes
- » Pharma certificates (FDA, USP etc.)
- » Various connections: clamp connections, dairy pipe unions, DIN-, ANSI- or aseptic flanges, welding ends ...



Valve for ultrapure media and mediu flow rates DM 152	im Page 40	Hygienic valve for ultrapure media at medium flow rates DM 462V	nd Page 40	
Hygienic valve for ultrapure media at medium flow rates DM 152V	nd Page 40	Valve for small flow rates DM 505	Page 41	
Valve for ultrapure media and mediu high flow rates DM 462	rm to Page 40	Liquid separator with integrated trap AS 2	Page 51	

Pulp and paper

The paper and pulp industry uses water mixed with chemicals as a solvent to dissolve the pulp out of the wood. The contaminated water is treated and returned to the process cycle. Bleeding/venting valves protect against vacuum and provide effective degassing.

Pulp and paper





Typical areas of application

- » Steam generation and distribution
- » Cooling units
- » Condensate discharge
- » Water supply (for ex. cooling water, DI water, decarbonization)
- » Pump protection
- » Heat exchanger





Renewable energies

Renewable energy generation produces electricity and heat from sunlight, rain, wind, water or geothermal energy. These sources have the ability of constant regeneration and make a great contribution to climate protection. The requirements for the valves used are correspondingly wide ranging.



Areas of application

- » Cooling circuits for converters (platforms)
- » Electrolyzers (see page 24)
- » Biogas plants

UV 5.5

- » Condensate separation in fuel cells
- » Hydropower and geothermal power plants
- » District heating networks



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Valve for small flow rates DM 505	Page 41			
High pressure valve for small to m flow rates DM 510	nedium Page 41	Continuous bleeding valve with DVC approval for small to high flow rates		
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Valve for small to medium flow ra	ites	Gas separator with integrated bleed venting valve	ding/	

AS 5

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Shipbuilding

A newly built ship combines a large number of components that must comply with the strict technical guidelines of the classification societies. The valves used are made of corrosion- and seawater-resistant materials and must fit into working areas that are difficult to access.

Ship classification companies

- » German Technical Monitoring Association (TÜV)
- » Lloyd's Register of Shipping (LR)
- » Bureau Veritas (BV)
- » DNV•GL
- » Registro Italiano Navale (RINa)
- » American Bureau of Shipping (ABS)



KA2



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Valve for small flow rates UV 3.5	Page 43	
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Water supply

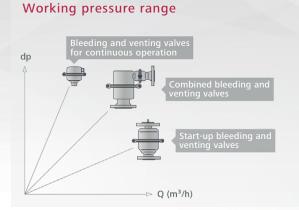
Water management includes drinking water supply, wastewater treatment and the irrigation/drainage of areas with varying amounts of precipitation. Valves used here must be resistant to ozone or seawater and are made of stainless steel or, if required, with epoxy coating in accordance with DVGW.



Selection of bleeding and venting valves

Types and sizes of the bleeding and venting valves must be chosen in accordance with the air quantity to be discharged under working pressure. The working pressure range must be within the limits of the maximum operating pressure of the plant, otherwise the bleeding valve cannot open.

- » Bleeding and venting valves for continuous operation discharge from pipelines, vessels or systems small quantities of air or gas accruing during plant operation
- » Combined bleeding and venting valves discharge from pipelines, vessels and systems large air quantities during filling and small quantities of air or gas during continuous operation
- » Start-up bleeding and venting valves discharge large air quantities when pipelines, vessels or systems are filled







Continuous bleeding valve for high to vehigh flow rates EB 1.10 Page 1.10	ery age 48	Start-up bleeding valve for small to m flow rates EB 3.52	edium Page 47	
Continuous bleeding valve with DVGW approval for small to high flow rates EB 1.12 Pa	age 46	Vacuum breaker for medium to very I flow rates VV 34	nigh Page 44	
Continuous bleeding valve with DVGW approval for small flow rates EB 1.32 Pa	age 46	Valve for small to high flow rates NV 98	Page 49	
Combined bleeding valve for medium flow rates EB 1.74 Pa	age 46	Pot strainer SF 6.00	Page 50	

ATEX

The production, transport and storage of flammable substances may generate gases, vapors or dusts which form an explosive atmosphere with atmospheric oxygen. In this case, equipment and protective systems must be selected to match the equipment group and the EPL in accordance with ATEX Directive 2014/34/EU.



Marking of non-electrical explosion-proof devices

You can find an overview on our ATEX application page, which can also be easily accessed via the QR code.





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Valve for medium to high flow rates DM 652 Pa	age 42	Valve for small flow rates KA 2	Page 48	



Corrosion

The interaction between fluid and environmental conditions, e.g. a saline atmosphere, determines the stress on the material used. Stainless steels with a high chromium or molybdenum content are particularly resistant to highly corrosive operating conditions.



Available corrosion-resistant metals

- » Stainless steel (1.4404, 1.4571)
- » Duplex (1.4462)
- » Super Duplex (1.4410, 1.4501)
- » Cronifer 1925hMo (1.4529)
- » Alloy 904L (1.4539)
- » 254 SMO® (1.4547)
- » Hastelloy® (2.4610)
- » Titanium (3.703



				1	
High pressure valve for small to med flow rates	dium				
DM 510	Page 41		15		
Valve for small to medium flow rate	S		Surge anticipation valve for high to high flow rates	very	
DM 555	Page 41	回上游戏茶	SAV 820E	Page 45	
High pressure valve for medium to he flow rates	nigh		Continuous bleeding valve with DV approval for small to high flow rate		
DM 620	Page 41		EB 1.12 adv	Page 46	
High pressure valve for high to very flow rates	high		Start-up bleeding valve for small to flow rates	medium	
RP 810 ECK	Page 42		EB 3.52	Page 47	
High pressure valve for small to med flow rates	dium		Continuous bleeding valve for high	pressure	
UV 8.2	Page 44		EB 6.32	Page 47	

High pressure

High-pressure applications pose extreme conditions for plant components, whether in the petrochemical industry, power generation, or water and wastewater treatment. Strict requirements are placed on the materials in terms of strength, leak tightness and corrosion resistance.

Large pressure reduction possible in one step

- » Up to 320 bar inlet pressure
- » Seat and cone hard-faced for liquids
- » Max. reduction ratio 1:160
 - » For ex. reduction ratio 1:100 DM 510 in DN 25, K_{vs} 0,25 m³/h, from 320 bar to 3,2 bar



High pressure valve for small to med flow rates DM 510	ium Page 41	High pressure valve for high to flow rates RP 810 ECK	very high Page 42	
High pressure valve for medium to h flow rates DM 620	igh Page 41	Continuous bleeding valve for h	nigh pressure Page 47	
High pressure valve for small to med flow rates UV 8.2	ium Page 44	High pressure strainer SF 3.00	Page 50	



Industrial water

Industrial water is used in many processes, e.g. for surface cleaning, for preparing active baths or mixed with lubricants for cooling in metal processing.

Reliable valves made of high-quality materials such as stainless steel ensure safe plant operation.

Industrial water

Typical areas of application

- » Cooling and heating water supply
- » Water treatment
- » Thermal tanks
- » Heat exchangers
- » Vacuum protection of pipelines and tanks







Standard valve for medium to his	gh flow rates Page 41		Vacuum breaker for medium to ver flow rates	y high Page 44	
High pressure valve for medium flow rates	to high		Continuous bleeding valve with DVG approval for small to high flow rate		
DM 620	Page 41	回读器张	EB 1.12	Page 46	
Valve for medium to high flow ra	ites		Combined bleeding valve for dirty vand sewage	vater	
DM 652	Page 42		EB 1.84	Page 47	
High pressure valve for high to veriflow rates	ery high		Start-up bleeding valve for small to flow rates	medium	
RP 810	Page 42	の影響	EB 3.52	Page 47	

Best products for

Tank blanketing

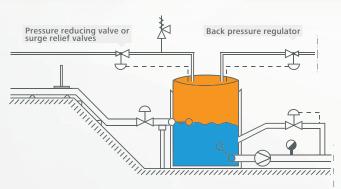
Storage tanks often contain media whose combination with atmospheric oxygen or other gases leads to undesirable mixtures or microbiological contamination. To avoid this, the empty volume in the headspace of the tank is pressurized with an inert blanketing agent.



Two types of valves -

Pressure reducing valve (PRV/DM) and back pressure regulating valve (BPRV/UV)

- » PRV (Pressure reducing valve) keep a constant low pressure of blanketing gas (e.g. nitrogen)
- » BPRV (Back pressure regulator valve) allow blanketing gas to be released during the filling process of the tank
- » Emergency relief valve to protect against pressure rise caused by external or safety valves
- » PRV and BPRV in combination can safely and effectively compensate fluctuating vapours in tanks and maintain a constant pressure in the tank's vapour space above the stored fluid
- » These valves always hold a constant pressure in the tank during pumping operations or when the temperature changes



Valve for small flow rates DM 505	Page 41		Millibar control valve for medium to high flow rates	very Page 42	
Millibar control valve for medium to	high	ELEK-ALEI	Millibar control valve for small to m	edium	ini beshini
flow rates			flow rates		
DM 586	Page 41		UV 3.0	Page 43	
Valve for medium to high flow rates			Millibar control valve for medium to	high	
			now races		
DM 652	Page 42		UV 3.9	Page 43	回發發影
Millibar control valve for small to me flow rates	dium	具始發見	Valve for medium to high flow rates		
now rates					
DM 755	Page 42		UV 5.1	Page 44	回鎖強點
Millibar control valve for small to me flow rates	dium	具体器具	Millibar control valve for small to m flow rates	edium	
now rates			now rates		
DM 762	Page 42		UV 7.5	Page 44	



EASY-CHECK –

Adjusting screw as a function of display

- » Function control
- » Constant installation height
- » Particularly safe disassembly

Function control

With the adjusting screw being flush with the cone stem, the stroke of the valve is visible on the adjusting screw. Thus the function of the installed valve can be controlled under operational conditions.

Compact design

The valve installation height remains constant after the pressure range has been set or changed. Thus the valve can be easily incorporated into the pipe system.

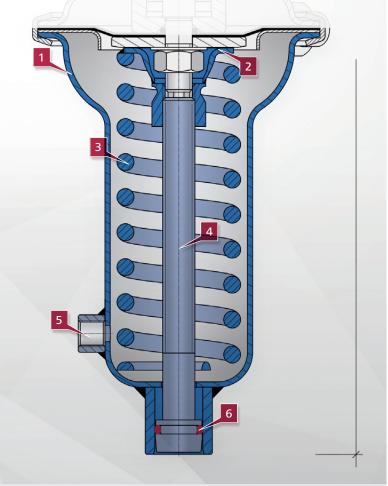
Safety during maintenance

Using a spring pack that rests at the bonnet will prevent tension when the bonnet is separated from the valve body. During disassembly the valve parts will not become dislodged in an uncontrolled way, even if the spring has not been released by mistake. Thus the valve ensures a particularly safe disassembly.

Additional safety in case of leakage hazard

Thanks to the O-ring seal of the adjusting screw and the connection of a so-called leakage line the valve is always hermetically sealed also in case of damage to the control element (diaphragm, piston or bellows). Thus the German rules for prevention of accidents (UVV) and the rules of the trade association BG for the handling of hazardous media are complied with. In addition, the connection of a manometer enables an easy function control.

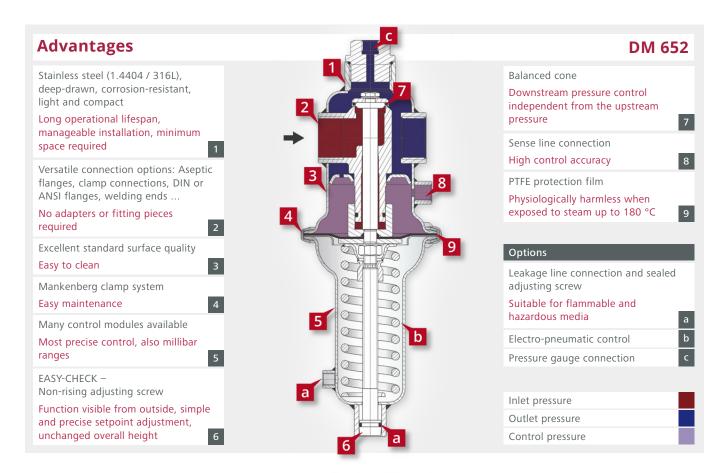
Spring pack	
Bonnet	1
Spring plate	2
Spring	3
Adjusting screw	4
Leakage line connection	5
Adjusting screw seal	6





Pressure reducing valves

Pressure reducing valves reduce a high and frequently fluctuating pressure to an adjustable constant pressure downstream of the valve. A spring keeps the valve open and this closes as the outlet pressure rises.

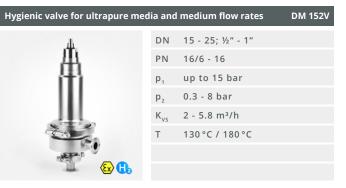




	Ρ1	up to o bai
44	p ₂	0.3 - 5
	\mathbf{K}_{vs}	2 - 7 m³/h
	Т	130°C / 180°C
Liquids, gases up to 130°C, steam up soft and metallic seal diaphragm steel (316L) suitable for CIP/SIP		

Valve for ultrapure media and medium to high flow rates				
	DN	25 - 80		
	PN	2.5 - 10		
	p ₁	up to 8 bar		
	p ₂	0.3 - 5 bar		
	\mathbf{K}_{vs}	4 - 70 m³/h		
	Т	130°C / 180°C		

Liquids, gases up to 130 °C, steam up to 180 °C | double-seated, non-balanced | soft seal | diaphragm controlled | completely made of stainless steel (316L) | suitable for CIP/SIP



Liquids, gases up to 130 °C, steam up to 180 °C \mid single-seated, non-balanced \mid soft seal | diaphragm controlled | completely made of stainless steel (316L) | suitable for CIP/SIP | ATEX version optional

Hygienic valve for ultrapure media and medium flow rates DM 462					
m	DN	25			
To Co.	PN	2.5 - 16			
	p ₁	8 bar			
	p ₂	0.8 - 5 bar			
	\mathbf{K}_{vs}	4 m³/h			
	Т	130°C / 180°C			
0					

Liquids, gases up to 130 °C, steam up to 180 °C | double-seated, non-balanced | soft seal | diaphragm controlled | completely made of stainless steel | suitable for CIP/SIP | straight way design





Liquids, gases up to 130 °C | single-seated, non-balanced | soft seal | diaphragm controlled | completely made of stainless steel | ATEX version ontional

Valve for steam applications and	d small	flow rates	DM 505Z
	DN	15 - 25	
	G	1/2	
	PN	250	
	p ₁	up to 250 bar	
	p ₂	0.005 - 12 bar	
	K_{vs}	0.05 - 1.4 m ³ /h	
	Т	250°C	

Steam up to 250 °C | single-seated, non-balanced | metallic seal | diaphragm controlled | completely made of stainless steel

High pressure valve for small to medium flow rates DM 510, DM 514				
	DN	15 - 50		
	G	3/8 - 2		
	PN	16 - 320		
	p ₁	up to 320 bar		
	p ₂	2 - 160 bar		
	K_{vs}	0.2 - 5.5 m³/h		
	Т	130 °C / 400 °C		
Ⅲ €x (12				

Liquids, gases up to 130 °C, steam up to 400 °C | single-seated, non-balanced | soft or metallic seal | diaphragm, piston or bellows-controlled | NACE-compatible | ATEX version optional

Valve for small to medium flow rates			
	DN	15 - 50	
	G	1/2 - 2	
	PN	40	
	p ₁	up to 40 bar	
	p ₂	0.5 - 20 bar	
	K_{vs}	1.3 - 7.5 m³/h	
	Т	130°C / 200°C	
€ (

Liquids, gases up to 130 °C, steam up to 200 °C \mid single-seated, balanced \mid soft or metallic cone \mid piston controlled \mid completely made of stainless steel \mid ATEX version optional

Millibar control valve for mediun	DM 586		
	DN	20 - 50	
	G	3/4 - 2	
	PN	16	
	p ₁	up to 16 bar	
	p ₂	0.003 - 0.95 bar	
	K_{vs}	7 - 22 m³/h	
	Т	130°C	

Liquids, gases up to 130 °C \mid single-seated, balanced \mid soft seal \mid diaphragm controlled \mid completely made of stainless steel \mid ATEX version optional



Liquids, gases up to 130 °C \mid single-seated, balanced \mid soft seal \mid diaphragm controlled \mid body made of GS-C25, diaphragm housing, bonnet and internal parts made of stainless steel \mid leakage line connection

Standard valve for steam application and medium to high flow rates DM 618Z					
	DN	15 - 100			
	PN	16 - 40			
	p ₁	up to 40 bar			
	p ₂	0.3 - 10 bar			
	K_{vs}	3.6 - 100 m³/h			
	Т	250 °C			
TI					

Steam up to 250 °C | single-seated, balanced | metallic seal | diaphragm controlled | body made of GS-C25, diaphragm housing, bonnet and internal parts made of stainless steel | leakage line connection

High pressure valve for medium	DM 620		
	DN	15 - 50	
	G	1/2 - 2	
	PN	16 - 315	
	p ₁	up to 315 bar	
	p ₂	2 - 160 bar	
	K_{vs}	0.4 - 10 m³/h	
	Т	200°C	
Į.			

Liquids, gases up to 200 °C | single-seated, balanced | soft seal | diaphragm, piston or bellows-controlled | body made of C-steel, stainless steel, Duplex, Super Duplex or Hastelloy® | NACE-compatible



Pressure reducing valves

Pressure reducing valves reduce a high and frequently fluctuating pressure to an adjustable constant pressure downstream of the valve. A spring keeps the valve open and this closes as the outlet pressure rises.



Liquids, gases up to 130 °C, steam up to 190 °C | single-seated, balanced | soft seal | diaphragm controlled | completely made of stainless steel | ATEX version

Millibar control valve for small to	DM 755		
	DN	15 - 50	
3 3 1 3 3	G	1/2 - 2	
	PN	16	
	p ₁	up to 16 bar	
	p ₂	0.002 - 0.65 bar	
	K_{vs}	0.2 - 4.5 m ³ /h	
	Т	130°C	

Liquids, gases up to 130 $^{\circ}\text{C}$ | single-seated, non-balanced | soft seal | diaphragm-controlled | completely made of stainless steel

Millibar control valve for small to medium flow rates			DM 762
	DN	15 - 50	
	G	1/2 - 2	
	PN	16	
	p ₁	up to 16 bar	
	p ₂	0.002 - 0.52 bar	
	\mathbf{K}_{vs}	0.2 - 3.6 m ³ /h	
	Т	130°C	
⟨€x⟩			

Liquids, gases up to 130 °C | single-seated, non-balanced | soft seal | diaphragm-controlled \mid completely made of stainless steel \mid ATEX version optional



Liquids and gases up to 130 $^{\circ}\text{C}$ | soft or metallic seal | body made of GS-C 25, stainless steel

High pressure valve for high to ve	RP 810ECK		
- 6 2st	DN	40 - 150	
	PN	16 - 160	
	p ₁	up to 160 bar	
	p ₂	1 - 40 bar	
	\mathbf{K}_{vs}	20 - 250 m³/h	
	Т	130°C	

Liquids, gases up to 130 $^{\circ}\text{C}$ | soft or metallic seal | body made of C-steel, stainless steel, special materials such as Duplex, Super Duplex or Hastelloy® available | NACE-compatible



Liquids up to 130 $^{\circ}\text{C}$ | metallic seal | body made of welded steel, stainless steel

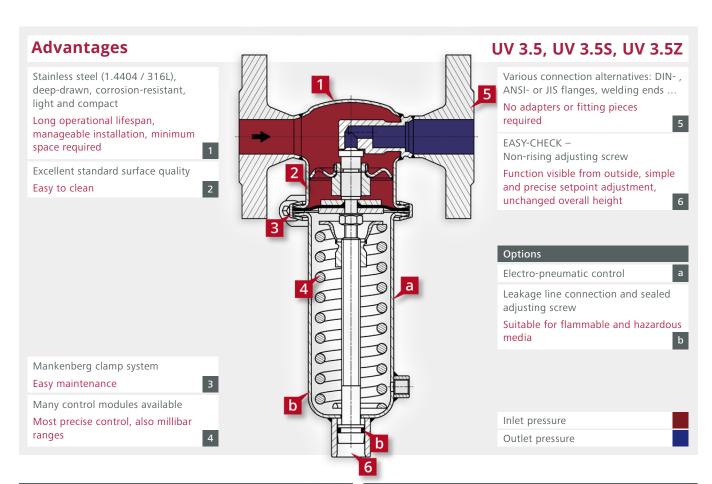
Millibar control valve for medium to very high flow rates				
	DN	25 - 150		
	PN	16		
	p ₁	up to 16 bar		
	p ₂	0.002 - 0.52 bar		
	K_{vs}	4 - 160 m³/h		
	Т	130°C		

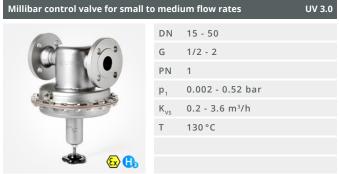
Liquids, gases up to 130 °C | soft seal | completely made of stainless steel



Back pressure regulators

Back pressure regulators control an adjustable constant pressure upstream of the valve. A spring keeps the valve close. As the inlet pressure rises the valve opens.





Liquids, gases up to 130 °C | single-seated, non-balanced | soft seal | diaphragm controlled | completely made of stainless steel | ATEX version optional

Valve for small flow rates		UV 3.5, UV 3.5S, UV 3.5Z
	DN	15 - 25
	G	1/2
	PN	25
	p ₁	0.005 - 20 bar
	K _{vs}	0.2 - 0.90 m ³ /h
	Т	130 °C / 200 °C
ⓑ ⓑ ⓑ		

Liquids, gases up to 130 °C, steam up to 200 °C | single-seated, non-balanced | soft or metallic seal (soft sealed version has a sense line connection) | diaphragm controlled | completely made of stainless steel | ATEX version optional

Millibar control valve for medium to high flow rates			UV 3.9
	DN	15 - 50	
	G	1/2 - 2	
	PN	1 - 2.5	
	p ₁	0.01 - 1.1 bar	
	K_{vs}	5 - 22 m³/h	
	Т	130°C	
€ €			

Liquids, gases up to 130 °C | single-seated, non-balanced | soft seal | diaphragm controlled | completely made of stainless steel | ATEX version optional



Liquids, gases up to 130 °C, steam up to 200 °C \mid single-seated, balanced \mid soft seal \mid diaphragm controlled \mid GS-C 25 or stainless steel



Back pressure regulators

Back pressure regulators control an adjustable constant pressure upstream of the valve. A spring keeps the valve closed. As the inlet pressure rises the valve opens.



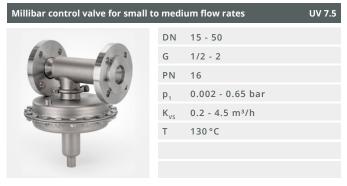
Liquids, gases up to 130 °C, steam up to 150 °C \mid single-seated, balanced \mid soft seal | diaphragm controlled | body made of GS-C25, diaphragm housing, bonnet and internal parts made of stainless steel | leakage line connection

Valve for medium to high flow rates			UV 5.1
	DN	15 - 50	
	G	1/2 - 2	
	PN	16	
	p ₁	0.02 - 12 bar	
	K_{vs}	3.5 - 22 m³/h	
	Т	130°C	
€ €			

Liquids, gases, steam up to 130 $^{\circ}\text{C}$ | single-seated, balanced | soft seal | diaphragm controlled | completely made of stainless steel | ATEX version optional

Valve for small to medium flow rates			UV 5.5
	DN	15 - 50	
	G	1/2 - 2	
	PS _{max}	20 bar	
	p ₁	0.5 - 20 bar	
	K_{vs}	1.3 - 7.5 m³/h	
	Т	130°C / 200°C	
€ €			

Liquids, gases up to 130 °C, steam up to 200 °C | single-seated, balanced | soft or metallic cone | piston controlled | completely made of stainless steel | ATEX version optional



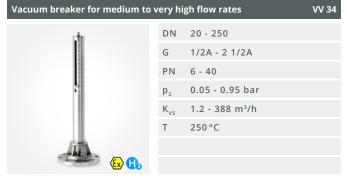
Liquids, gases up to 130 °C | single-seated, non-balanced | soft seal | diaphragm-controlled | completely made of stainless steel

High pressure valve for small to medium flow rates			UV 8.2
	DN	15 - 50	
	G	3/8 - 2	
	PN	100	
	p ₁	2 - 100 bar	
	\mathbf{K}_{vs}	0.2 - 5.5 m ³ /h	
	Т	130°C / 400°C	
€ (

Liquids, gases up to 130 °C, steam up to 400 °C | single-seated, non-balanced | soft or metallic seal | diaphragm, piston or bellows-controlled | body made of C-steel, stainless steel, Duplex, Super Duplex or Hastelloy® | NACE-compatible | ATEX version optional

Vacuum breakers

Vacuum breakers protect vessels and pipelines against vacuum. A vacuum can build up when a system is being drained, when it cools down or when a pump fails. Vacuum control valves are pressure reducing valves or back pressure regulators which control pressures below 1 bara.

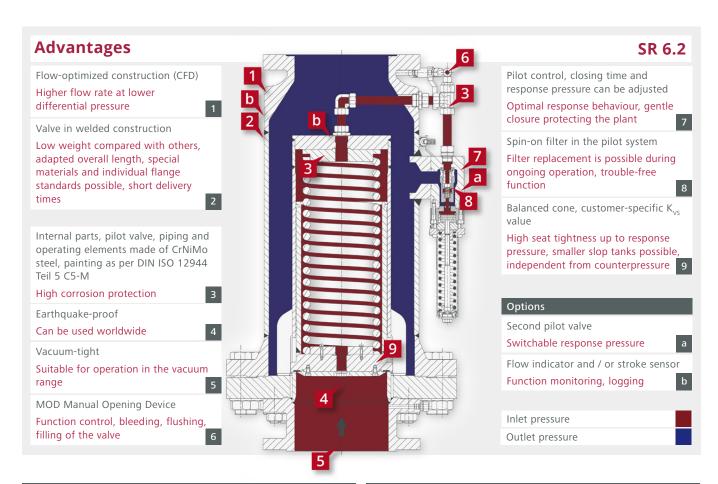


Liquids, gases up to 250 °C | soft or metallic seal | spring controlled | completely made of stainless steel | NACE-compatible | ATEX version optional



Surge relief valves

Surge relief valves are used for the decay of pressure surges and of permanent overpressures within pipeline systems.







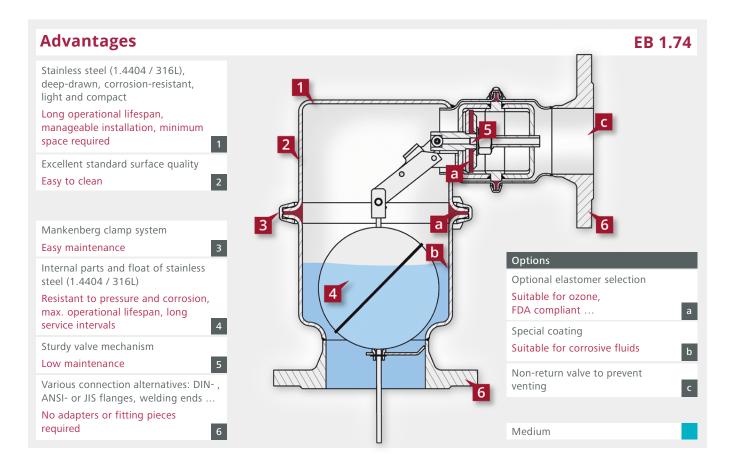
special materials such as Duplex, Super Duplex or Hastelloy® available | NACE-compatible

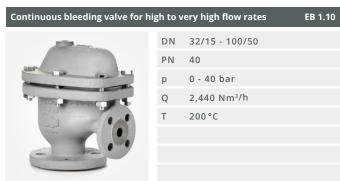
Liquids up to 130°C | soft or metallic seal | body made of C-steel, stainless steel, Liquids up to 130°C | soft seal | body made of steel, stainless steel



Bleeding and venting valves

Bleeding and venting valves remove or admit air or gases automatically from/to tanks, vessels or pipelines. They are float-controlled valves which close as the liquid level rises and open as the level falls.





Liquids, especially suitable for contaminated and foaming media up to 200 $^{\circ}\text{C}$ | soft or metallic seal | body made of GGG-40, GS-C25



Liquids up to 130 °C \mid soft or metallic seal \mid completely made of stainless steel \mid standard design with a BSP male connection G 3/4 on the outlet \mid DVGW certificate | ATEX version optional

Continuous bleeding valve with DVGW approval for small flow rates			EB 1.32
	G	3/4 x 1/2A	
	PN	16	
	р	0 - 16	
	Q	5.9 m³/h	
	Т	130°C	

Liquids up to 130 °C | soft or metallic seal | completely made of stainless steel | standard design with a BSP male connection G 1/2 on the outlet | DVGW certificate



Liquids up to 130 °C | soft and metallic seal | completely made of stainless steel | KTW compatible



Combined bleeding valve for dirty water and sewage				
	DN	50 - 150		
	PN	10 - 16		
	р	0.2 - 16 bar		
	Q	1,100 Nm³/h		
	Т	60°C		

Liquids up to 60 $^{\circ}\text{C}$ | soft and metallic seal | completely made of stainless steel

Start-up bleeding valve for small to medium flow rates				
	DN	25 - 100		
	PN	16		
	р	0.3 up to 12 bar		
	Q	1,935 Nm³/h		
	Т	130°C		

Liquids up to 130 $^{\circ}\text{C}$ \mid soft seal \mid completely made of stainless steel \mid ATEX version optional

Combined bleeding valve for sea wat	ter and	small to very high flow rates	EB 3.54
	DN	25 - 100	
	PN	40	
	р	0.2 - 40 bar	
	Q	3,300 Nm³/h	
	Т	90 °C	
The same			

Water, aggressive liquids up to 90 °C and seawater up to 40 °C | soft seal | body made of stainless steel, special materials such as Duplex, Super Duplex available



Liquids up to 200 °C | soft seal | completely made of stainless steel

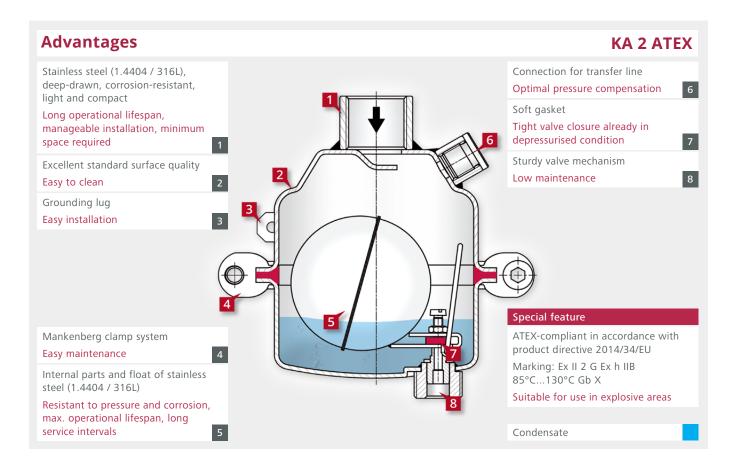
Combined bleeding valve for small to very high flow rates			EB 6.54
-5-6-5- a	DN	25 - 300	
	PN	6 - 40	
	р	0.3 - 40 bar	
	Q	18,550 Nm³/h	
10 100			

Liquids up to 130 $^{\circ}\text{C}$ | soft seal | completely made of stainless steel



Steam traps

Steam traps automatically drain condensate without loss of steam or gas. They operate instantaneously and are not affected by backpressure or pressure fluctuations. They do not require an external energy input.



Valve for very high flow rates			KA 1 (Niagara)
I	DN	15 - 25	
	PN	16	
	р	0 - 16 bar	
	Q	3.7 m³/h	
	Т	200°C	
100			

Steam up to 200 °C | metallic seal | body made of GGG-40, inner parts of stainless steel

Valve for small flow rates			KA 2
	G	1/2 x 1/2A, 3/4 x 1/2A,	
A Comment		G 1 x 3/4A	
	DN	DN 25 x 3/4A	
	PN	16	
	р	0 - 13 bar	
	Q	2 - 1,570 l/h	
	Т	190°C	
₹ € (

Steam up to 190 $^{\circ}\text{C}$ | soft seal | completely made of stainless steel | standard design up to DN 20 with a BSP male connection G 1/2 on the outlet, DN 25 male connection BSP G 3/4 | ATEX version optional

High pressure valve for small floo	w rate	s	KA 6
	DN	1/2	
	PN	60	
	р	0 - 60 bar	
	Q	224 l/h	
	Т	-30 up to 100°C	
(6 G			
74			
€ (1)			

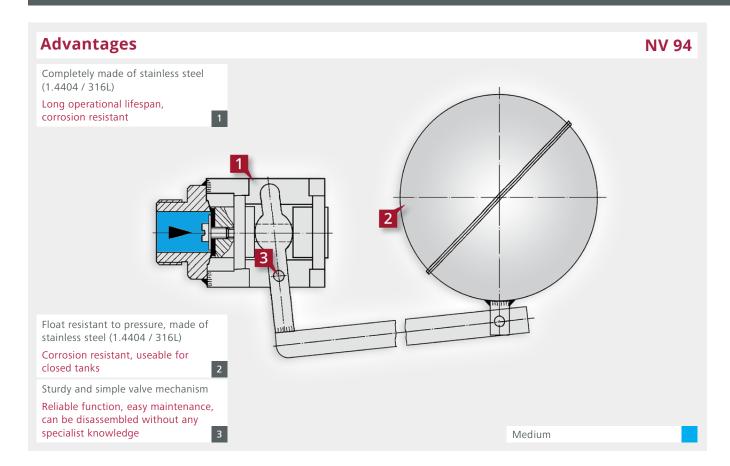
Gases up to 100 °C | metallic seal | completely made of stainless steel | ATEX version optional



Float valves

Float valves automatically control liquid levels in sealed or open (non-pressurised) tanks and vessels without requiring external energy. The float registers the liquid level and directly controls

the valve via a lever. A change in the liquid level immediately results in a changed flow volume.





Liquids up to 300 °C, also suitable for aggressive media \mid soft or metallic seal \mid body made of steel, stainless steel

Valve for small to high flow rate	s		NV 94
	G	3/8A - 1 1/2A	
	PN	16	
	р	0 - 8 bar	
	K_{vs}	0.5 - 21 m³/h	
	Т	300°C	

Liquids up to 300 °C, also suitable for aggressive media \mid soft or metallic seal \mid completely made of stainless steel

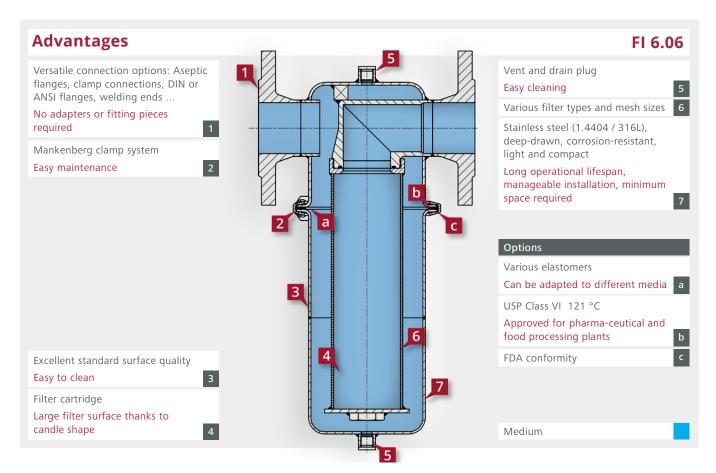
Valve for small to high flow rates	;		NV 98
	DN	40 - 80	
	G	3/8A - 1 1/2A	
	PN	16	
	р	0 - 8 bar	
	K_{vs}	0.5 - 82 m³/h	
	Т	130°C	

Liquids up to 130 °C, also suitable for aggressive media \mid soft seal \mid completely made of stainless steel



Strainers and filters

Strainers and filters protect plant, plant components and equipment against damage and malfunctioning caused by contamination.





Gases and steam up to 190 $^{\circ}\text{C}$ | retained particle size 5, 20 or 25 μm | completely made of stainless steel

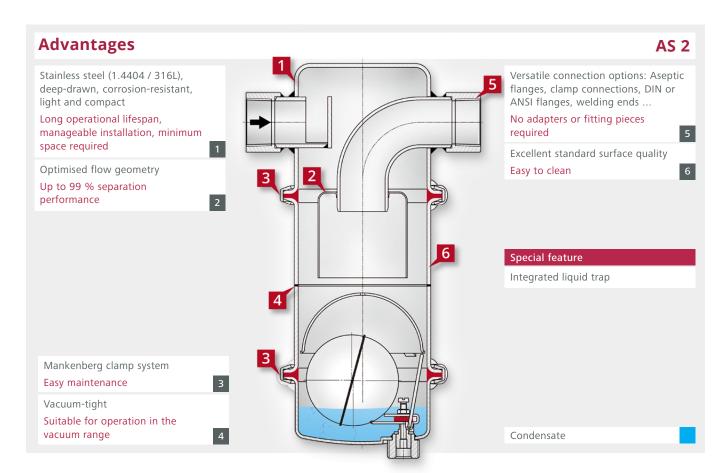


Liquids, gases and steam up to 550 $^{\circ}\text{C}$ | mesh size 0,25 - 2,5 mm | body made of forged steel, stainless steel or special material such as Duplex, Superduplex, Hastelloy® or titanium

Pot strainer			SF 6.00
7 to 122	DN	15 - 100	
	G	1/2 - 2	
	PN	16	
	Т	130°C	

Liquids, gases up to 130 °C | mesh size 0.25–2.5 mm | completely made of stainless steel

Separators separate media of different states of aggregation.





Liquids, gases and steam up to 190 $^{\circ}\text{C}$ | completely made of stainless steel | integrated soft sealed liquid trap



Liquids up to 130 $^{\circ}\text{C} \mid$ completely made of stainless steel \mid integrated soft sealed bleeding valve

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- » Quick troubleshooting
- » Practical experience
- » Instructions for troubleshooting on the phone

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Always and everywhere



Experienced Mankenberg specialists are available for your needs. You carry out the commissioning or setting of the valves in your plant. Benefit from our know-how and get an optimal cost / benefit ratio.

» Longer service life due to optimally set valves

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Rapidly ensure safety in the long term



As well as customised spare part packages, our extensive spare parts depot guarantees high availability of spare parts. Our express delivery service will despatch available spare parts on the same day with express delivery, provided the order is placed by 3:00 p.m. This ensures that the valves are back in operation as quickly as possible to guarantee maximum productivity of your plant.

- » Long-term availability of spare parts
- » High availability of spare parts
- » Express delivery
- » Individual and personal advice

Spare parts may be ordered online via our online shop: www.mankenberg.shop. Alternatively you can send a query by email: service@mankenberg.de



Training

Know-how to its very essence



Control valves are our world - from standard valves to customer-specific special solutions. Know-how in a nutshell.

With our M-SERVICE training courses we provide you first-class, practical and customer-oriented seminars. In this way you constantly improve your potential and that of your employees.

Our specialists with practical expertise convey the necessary knowledge for the selection and use or the high-quality assembly, maintenance and testing of Mankenberg valves.

- » Sustainability through high practical approach
- » Cross-industry exchange of experience

QUALIFIED, FAST AND EFFICIENT - what counts for us is what you need in practice.

Any further information on maintenance can be found in the Internet: www.mankenberg.com or email: service@mankenberg.de

Workshop repair

Smartly avoid failures



Maintenance can be that easy – with factory repairs at our headquarters! Simply send us your industrial valve to be overhauled to Luebeck and we will take care of the rest. In addition we offer you:

- » Safety through maintenance contracts
- » Flexibility through valve modification and rebuild
- » Speed through the Mankenberg express repair service
- » Valve cleaning, also in the event of hazardous substances

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