

# ASEPTIC VALVE PROGRAM

Technics in stainless steel  
for the food, chemical and  
pharmaceutical industry





# ASEPTIC SINGLE SEAT VALVES

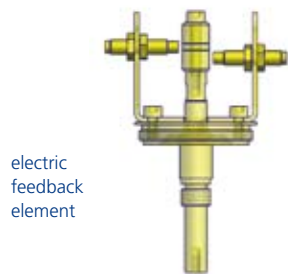
## Our ideas – your advantages

- ▣ valve body made of **solid bar** – all mounting positions possible depending on draining
- ▣ perfectly cleanable
- ▣ interior surface Ra 0.8 µm (standard)
- ▣ product **hermetically** sealed against environment
- ▣ completely draining
- ▣ no sump or dome
- ▣ **dead space free** design
- ▣ **3A-standard**-approved seal up to product area
- ▣ many valve types available in 3A-version
- ▣ **product preserving** aseptic media guidance
- ▣ easy and quick assembly without special tools
- ▣ low maintenance time
- ▣ tube outlets available as DIN, OD tube and ISO
- ▣ **PTFE-bellows**  
**FDA conform**
- ▣ high durability due to improved pressure stability
- ▣ folds remain separated in open valve position, thus easy to clean
- ▣ PTFE little adhesive
- ▣ highly resistant to aggressive media
- ▣ alternatively: metallic bellows with standard o-rings (FDA conform) or PTFE-metal combinations
- ▣ bellow failure indicator
- ▣ Thanks to the **building block system**, actuators and inserts may be changed, e.g. in case of process modifications.
- ▣ The **opening mode of the pneumatic actuator** may be changed by simple device modification from “air open – spring close” to “spring open – air close” and vice versa.
- ▣ A **three position actuator** permits a third position in simple static dosing processes.
- ▣ Feedback elements and control heads are mountable.

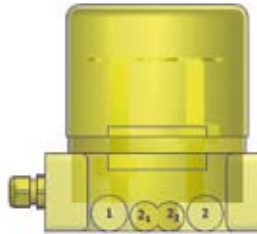


# HYGIENIC AND ASEPTIC SEAT VALVES

## The building block system



electric feedback element



control head



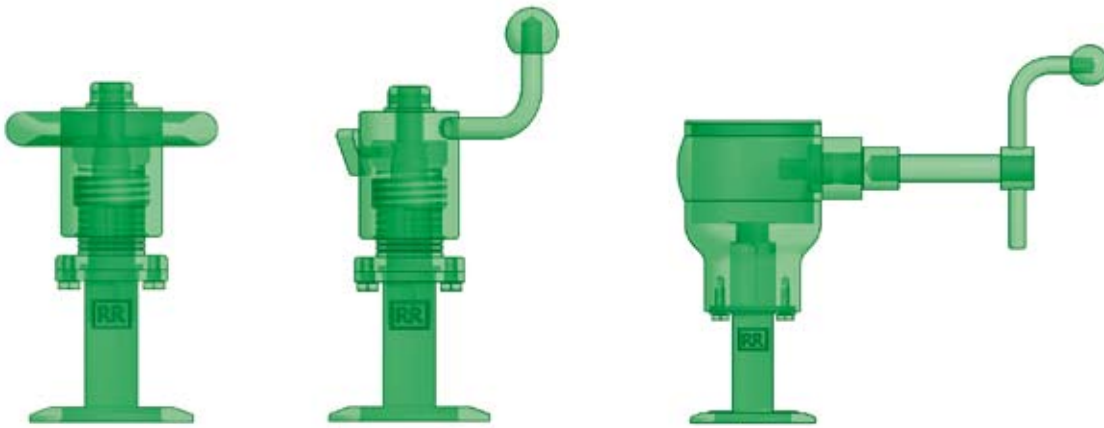
pneumatic actuators



spindles – aseptic design



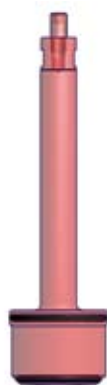
body variants



manual actuators



spindles - hygienic design



spindles – metallic bellow design



# ASEPTIC DOUBLE SEAT VALVE N7

## ... for safe separation of liquids



### VALVE STRUCTURE

- ▣ leakage chamber sterilisable
- ▣ one-piece valve body made of solid bar
- ▣ entirely dead space free and completely drainable
- ▣ low number of welding seams in product area

### COMPLETE PRODUCT PROTECTION

- ▣ safe media separation due to leakage chamber

### SEAL

- ▣ PTFE bellows
- ▣ alternatively metallic bellows

### BUILDING BLOCK SYSTEM

- ▣ possibility to change at any time between PTFE, metallic or PTFE-metallic combination

### EASE OF SERVICE

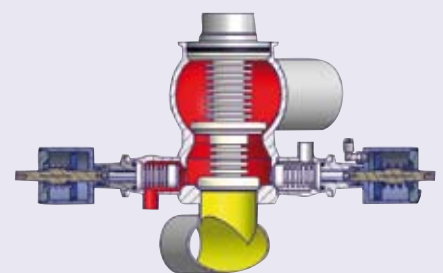
- ▣ exchange of seals without special tools
- ▣ low maintenance time
- ▣ perfectly cleanable

### ECONOMIC EFFICIENCY

- ▣ high durability of PTFE bellows
- ▣ minimal maintenance costs

### OPERATING MODE

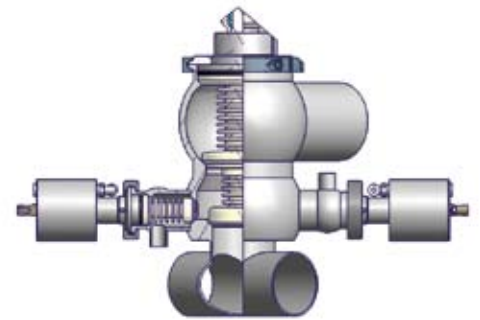
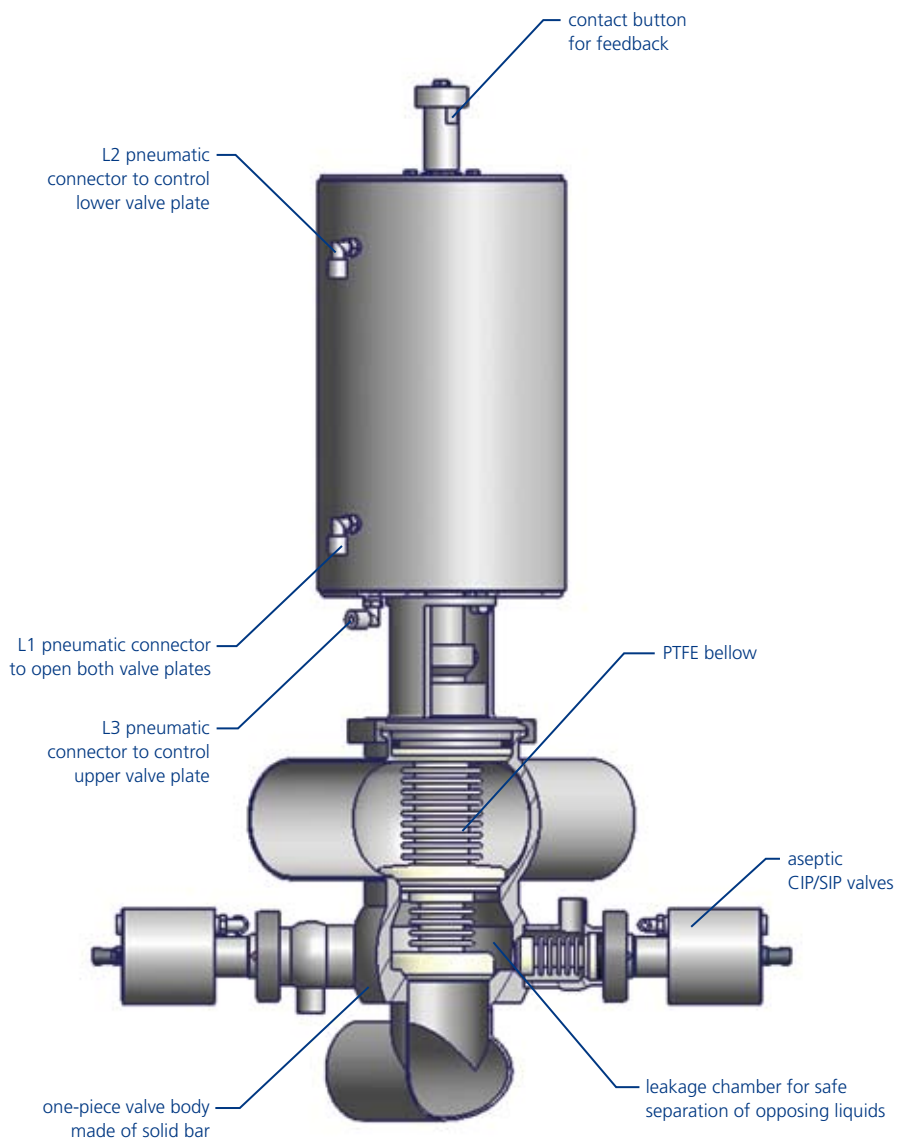
L3 – pneumatic connector to control upper valve plate



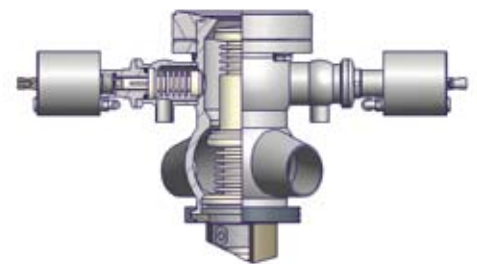
CIP-cleaning and SIP-sterilisation of upper valve body including valve seat and safety chamber; upper valve plate lifted each cycle.

*PTFE bellows with metallic head for use in granular media, e.g. strawberries, raspberries, etc.*



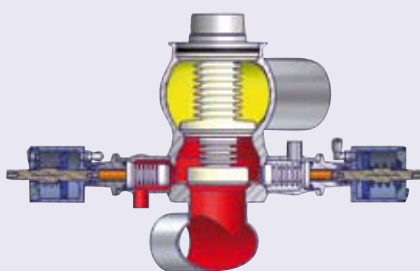


for pipes



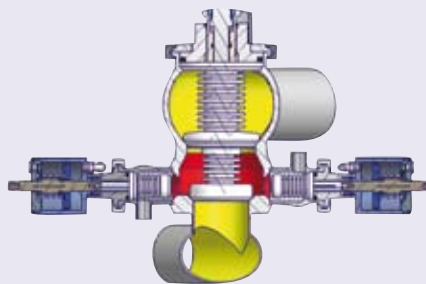
for tanks

**L2 – pneumatic connector to control lower valve plate**



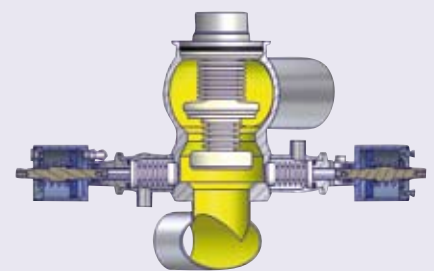
CIP-cleaning and SIP-sterilisation of lower valve body including valve seat and safety chamber; lower valve plate lifted each cycle.

**CIP-cleaning and SIP-sterilization of the security chamber**



valve closed

**L1 – pneumatic connector to open both valve plates**



valve open

# ASEPTIKDOUBLE SEAT VALVE N13

... uncompromisingly aseptic



Two independent bellows – optionally made of PTFE or metal – hermetically seal against the environment. The double valve seat separates the two process lines, to prevent unwanted mixing of two liquids. This new construction renounces of CIP-valves and permits a very compact and elegantly shaped valve.

Both, the upper and the lower valve plates may be scheduled independently for cleaning.

The dead space free spherical shape of the valve's body allows optimal cleaning of its interior.

*The aseptic process valve N13 combines the advantages of the double seat valve N1 with those of the aseptic process valve N7. The patent has been granted.*



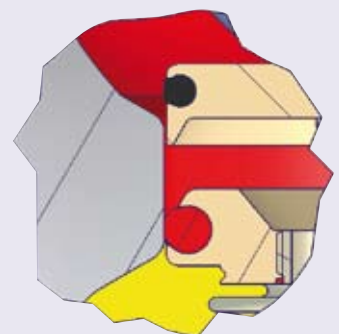
The actuator may be dismantled upwards in one piece. Puncture proof up to 20 bar, N13 guarantees fully aseptic processes in a new and uncomplicated manner.

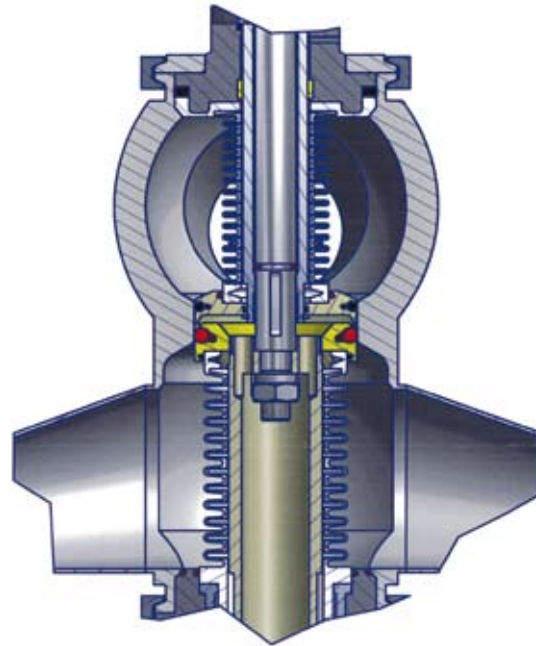
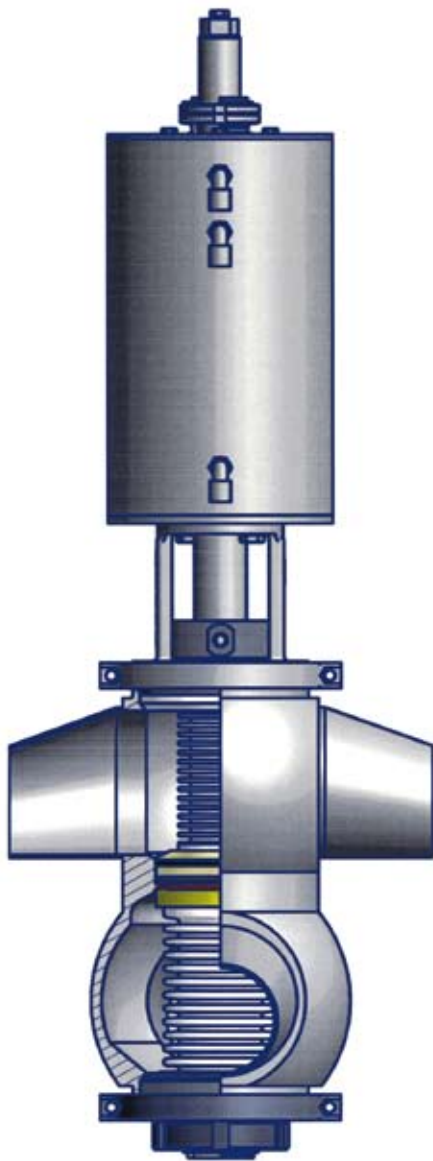
## FEATURES

- ▣ PTFE bellow with metallic head (also suitable as fruit valve)
- ▣ leakage free
- ▣ aeratable / controllable
- ▣ rinsable and sterilisable
- ▣ vacuum safe
- ▣ puncture proof up to 20 bar against mixture of product and detergent, due to double valve seat interlock
- ▣ simple and efficient spare part handling (equal spare parts from DN 40 to DN 80)
- ▣ EHEDG-certified

## CLEANING PROCESS

cleaning: upper valve body



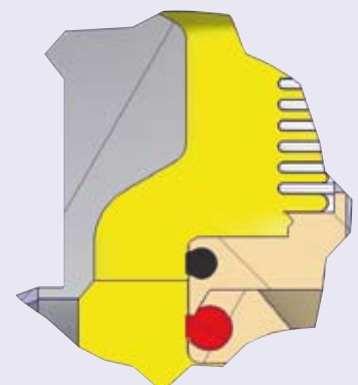
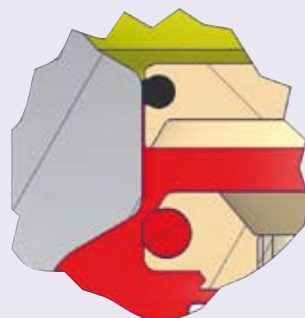
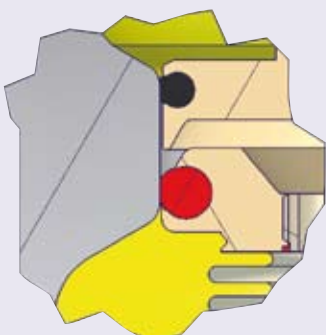


*The renouncement of CIP-valves to clean the product area allows a very compact and small valve body regarding its functionality. In terms of control, the integration of this valve into the production process needs a significantly lower effort than common process valves.*

valve closed

cleaning: lower valve body

valve open



# ASEPTIC SAMPLING VALVES PB

## ... safety for your product



In aseptic process engineering, process control has become an indispensable element.

The BioCheck sampling valves allow easy and safe sampling from inside closed systems like vessels or pipes.

During the construction of this aseptic armature, particular care has been taken for its aseptic but also very compact design. Thus, any integration of this valve into either aseptic production lines or CIP/SIP-loops is smooth and above all contamination-free.

### FEATURES

- ▣ solid bar valve body
- ▣ entirely dead space free design
- ▣ completely drainable
- ▣ very small mounting dimensions
- ▣ connections suitable for orbital welding
- ▣ high durability of PTFE bellows
- ▣ minimal maintenance costs
- ▣ hermetically sealed against the environment
- ▣ perfectly cleanable
- ▣ exchange of seals without special tools
- ▣ low maintenance time
- ▣ application in the pharmaceutical and biochemical industry, the cosmetic, dairy and food industry, brewery, wine and beverage industry.
- ▣ certified according to TA-Luft / VDI 2440 / VDI 3479

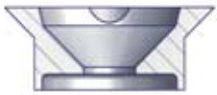
*Two modes of operation – pneumatic actuation and manual control – are combined in one valve. This variant permits a new sampling flexibility – as the process requirements may be. The building block system offers unproblematic change between pneumatic and manual actuation.*



*pneumatic with handle*



*hand wheel*



pipe



tank



clamp



BioConnect



hand wheel



pneumatic actuator



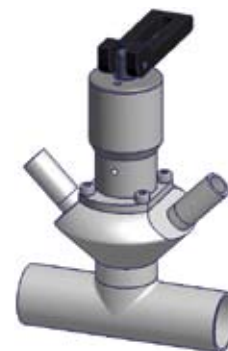
Ingold nozzle



pneumatic actuator in 3A-version



All bodies are available with single or double outlet.



with welded-on T-piece

### CONSTRUCTION TYPES OF THE BIOCHECK SAMPLING VALVE



# MINI ASEPTIC SAMPLING VALVES

## ... small – but mighty

The Mini BioCheck sampling valves meet the requirements for minimal product contact surfaces.

The mini valves allow minimal sampling quantities featuring the same valve features in material and design compared to the larger valves such as DN 10 (1/2").



### OPTIONS

- ▣ pipe, vessel, clamp connection (Ø 25 mm or 34 mm)
- ▣ 1 port for sampling
- ▣ 2 ports for CIP and/or SIP plus sampling
- ▣ DIN 6 (8 x 1 mm pipe)
- ▣ DIN 8 (10 x 1 mm pipe)
- ▣ hand wheel
- ▣ pneumatic (spring to close)
- ▣ pneumatic and lever



# BIOCHECK COMBI VALVE

## ... no dead spaces

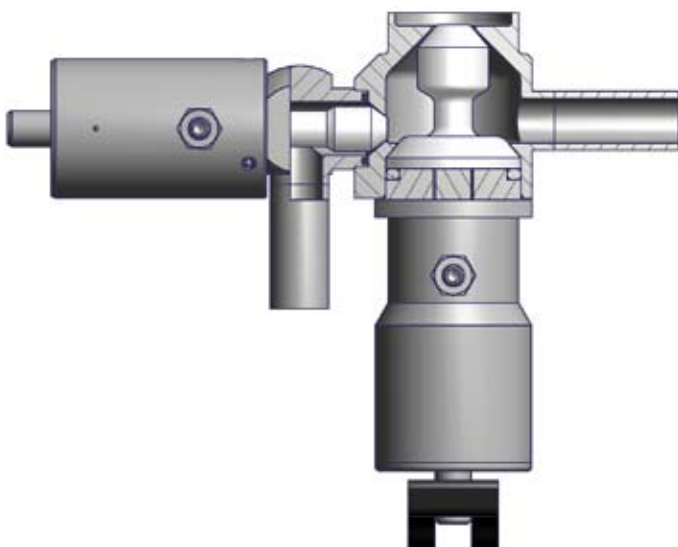


*for clamp mounting*

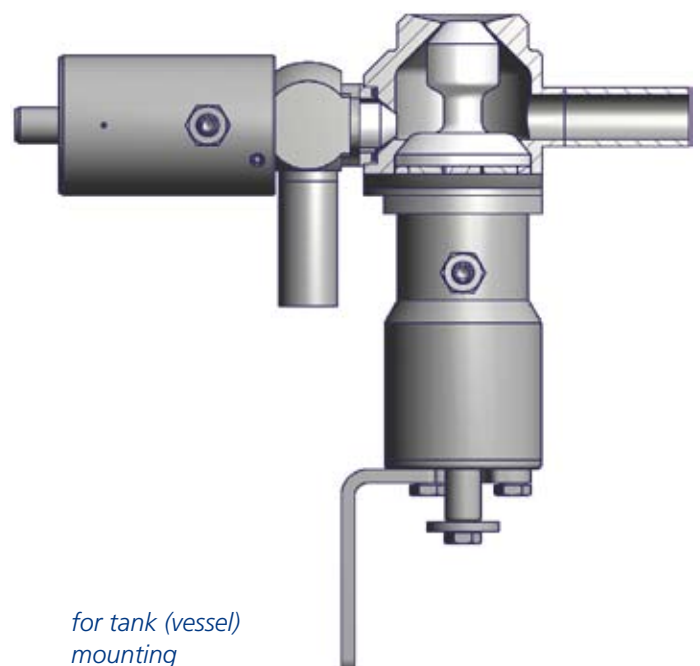


### FEATURES

- ▣ space-saving
- ▣ with lever or proximity switch bracket on sampling valve
- ▣ steam or rinsing valve directly combined to the sampling valve
- ▣ weld seam and steam line and the additional steam valve are no longer required
- ▣ no reflux of product into steam line



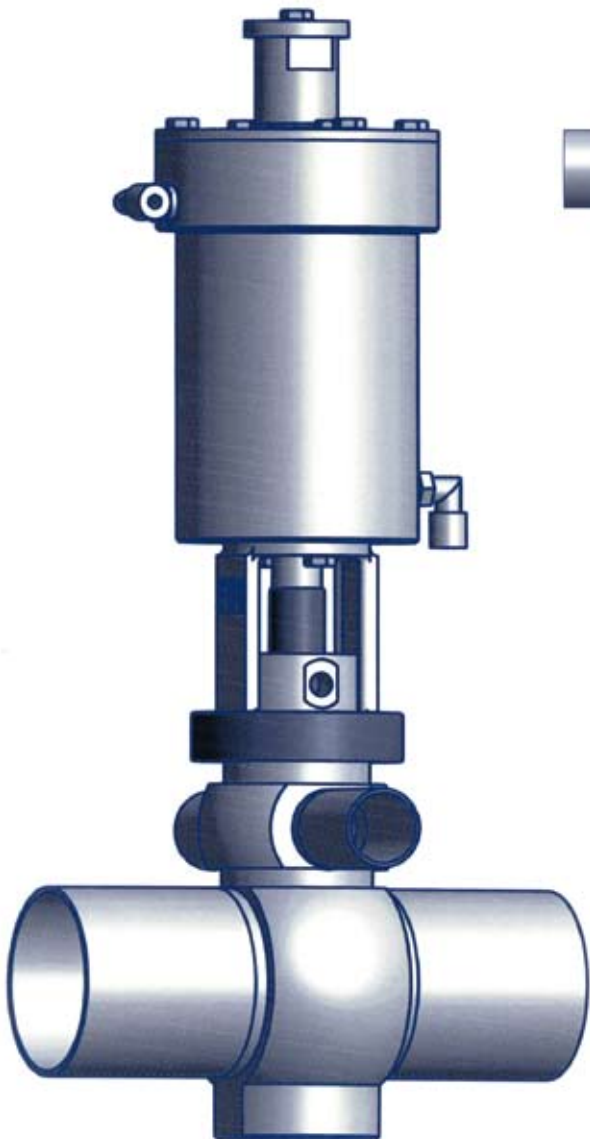
*for pipe or tubing*



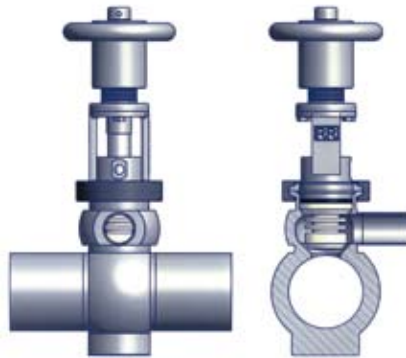
*for tank (vessel) mounting*

# ASEPTIC SAMPLING VALVES D

## Piping sampling valve from DN25



*All valves are also available with only one outlet, thus without rinsing nozzle.*

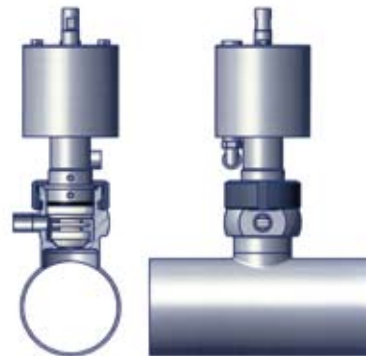


*manually actuated with hand wheel D4*

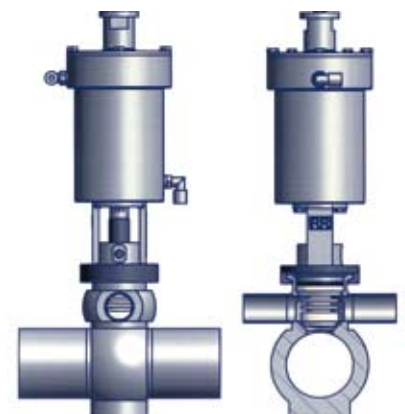
Aseptic piping sampling valves allow contamination-free sampling of liquids in pipes without contact to ambient air.

The extraction and pipe bodies are available in several nominal diameters. An optionally available rinsing nozzle serves to clean and sterilise the valve body.

Equipped with either hand wheel, pneumatic actuator or three position actuator, thanks to the building block system, the valves' actuation can easily be adapted to changed process requirements.



*pneumatically actuated D31*



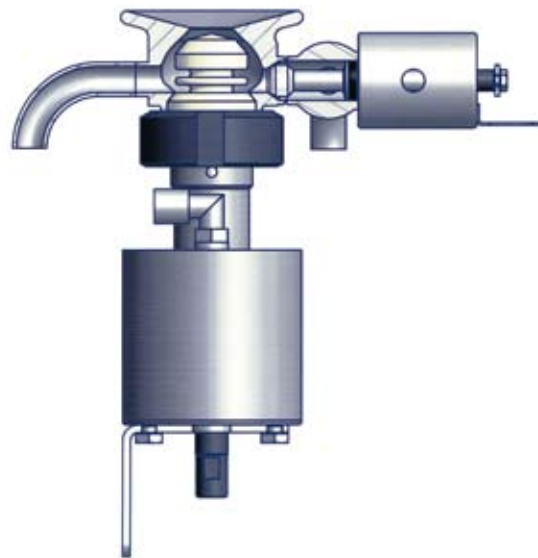
*pneumatically actuated with three position actuator D71*

# Bottom seat valves combined with CIP valves

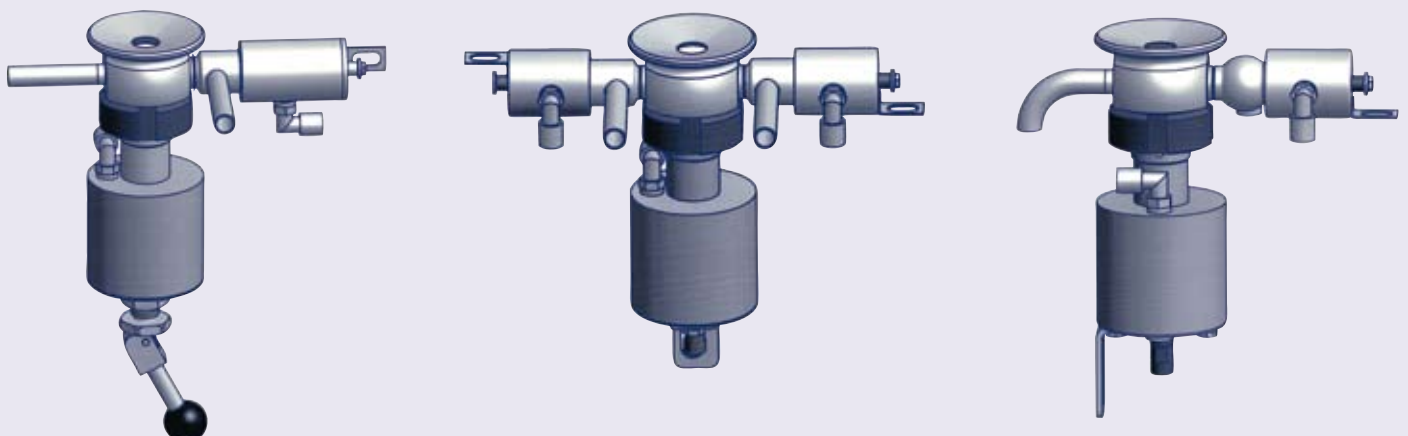


## DIRECT STERILISATION OF VALVE BODY WITHOUT DEAD SPACES

- ▣ with one or two CIP valves
- ▣ main valve as well as CIP valves either manually or pneumatically actuated
- ▣ very small mounting dimensions



## **BOTTOM SEAT COMBINATION VALVES ARE AVAILABLE IN MANY VARIANTS**



# ASEPTIC SAMPLING VALVES

## Sampling into bottle



### ASEPTIC SAMPLING WITH BOTTLE

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- ▣ for all common laboratory bottles
- ▣ connection thread GL45 ISO
- ▣ for samples from 100 to 2000 ml
- ▣ no air contamination
- ▣ completely aseptic system



### SAMPLING PROCEDURE

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- ▣ sterilise entire device
- ▣ insert device into pipe
- ▣ sterilise pipe
- ▣ take aseptic sample
- ▣ close valves
- ▣ remove device from pipe
- ▣ aseptic transport to laboratory

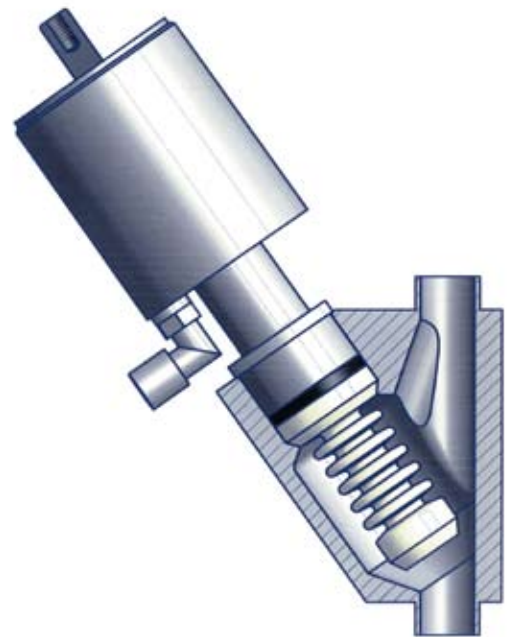
# ASEPTIC FILLING VALVES

## ... aseptic filling guaranteed

### INCLINED SEAT FILLING VALVE

The durability of PTFE bellows – optionally available also with a stainless steel cap with O-ring or PEEK cap for liquids with grains – guarantees low idle times. Separated folds also in open valve position allow optimal cleaning.

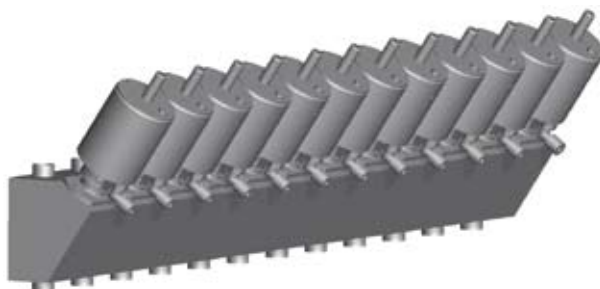
Several valves, which are combined to valve blocks inside filling machines, flawlessly and aseptically fill in products like yogurt.



*PTFE bellows*



*PTFE bellows with stainless steel cap*



*Valve block for filling machines*



*PTFE bellows with PEEK cap*



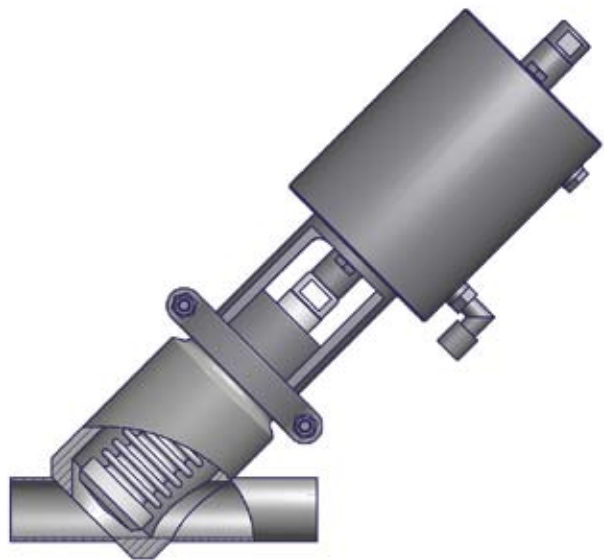
*inclined seat filling valve – filling in a new dimension*

# ASEPTIC INCLINED-SEAT VALVE S

## ... full flow with minimal intrusion

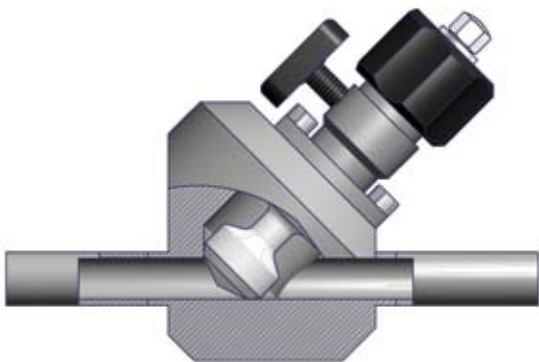
### DATEN

- ▣ solid machined valve body
- ▣ product hermetically sealed against the environment
- ▣ full product and CIP drainage
- ▣ easy maintenance without special tools
- ▣ modular system: simple change between hygienic and aseptic version
- ▣ with manual or pneumatic actuator
- ▣ minimal pressureloss flow

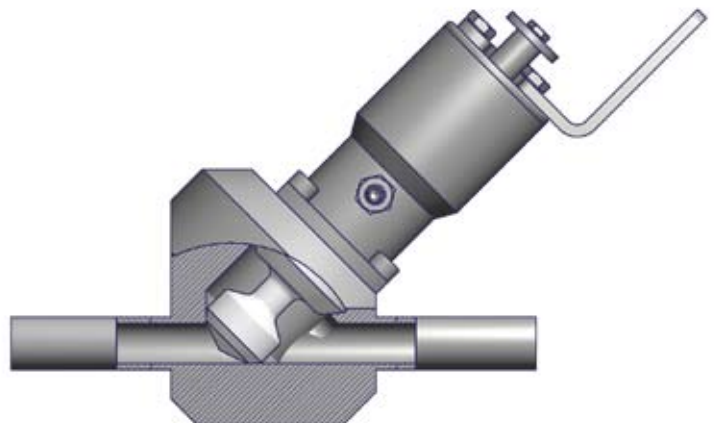


### BIOCHECK INCLINED-SEAT VALVES

Similar to the BioCheck Sampling valve, the BioCheck Inclined-seat valve offers reliable product safety on smallest space in size DN 10 DIN (1/2").



*with hand wheel*



*with pneumatic actuator*

# PRESSURE RETAINING VALVE DH2

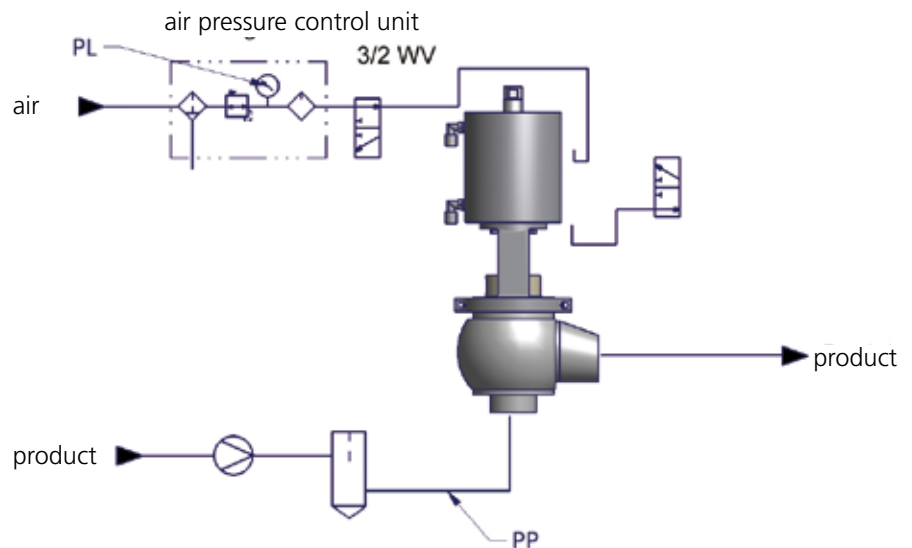
## ... aseptically stand back pressure



The **RIEGER-pressure retaining valve DH2** fulfills the task to maintain a defined pressure on the valve's inlet side. This may be i.e. the pressure (PP) in a pipe after a filter or heat exchanger. If the pressure drops after the filter or heat exchanger, the valve automatically adjusts to the requested set pressure.

This is achieved by means of an air pressure control unit, whose pressure gauge is adjusted to the desired pressure of the pressure retaining valve.

The product space is protected by the PTFE-bellows against contamination from ambience, i.e. the "lift effect" is avoided.



Calculation formula for to be adjusted air pressure PL:

$$PL = (PP \times VF) \pm 0,1 \text{ bar Tolerance}$$

VF = valve factor depending upon size – see catalog

Example for DN 25 with PP (incoming pressure) of 3 bar between filter and pressure retaining valve:

$$PL = (3 \text{ bar} \times 0,14) \pm 0,1 \text{ bar} = 0,42 \pm 0,1 \text{ bar}$$

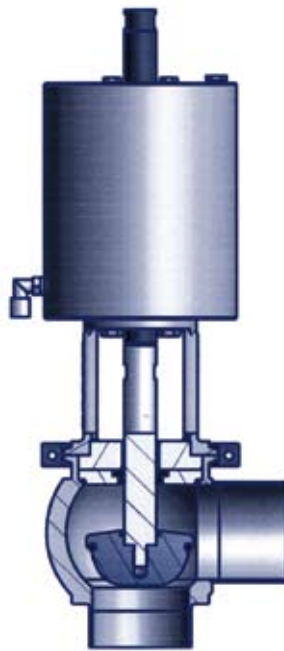
i.e. PL: approx. 0,32 to 0,52 bar

# ASEPTIC CONTROL VALVES

## ... exact flux control



*pneumatically  
actuated with control  
head*



Especially in the pharmaceutical industry and also in the food sector, endurance and durability of PTFE control bellows imply undisturbed production workflow and product safety. Longer production cycles stand for less maintenance costs and thus higher productivity.

On the product side, control valves with PTFE bellow or spindle can be sealed with o-rings.

Thanks to the building block system, a change in the sealing or actuation system is possible at any time, i.e. from manual to pneumatic actuation or vice versa.



*up to DN20 manually actuated via hand wheel  
from DN25 manually actuated with crank handle*

# ASEPTIC OVERFLOW ANGLE VALVES E8

## ... for safe pressure reduction



### RIEGER overflow angle valves E8

are a combination between angle valves and overflow valves. The designated pressure is adjustable according to pressure tables in catalogues while the upstroke remains as long as possible.

In difference to an overflow valve, the RIEGER overflow angle valve opens its passage up to 100% – like an angle valve.

For safety reasons, we place a clip around body and actuator in case of nominal diameters DN 25 and larger. This clip can only be removed with a tool. Overflow angle valves are NOT safety valves. For such a purpose, we recommend the TÜV-certified safety valve of type SH.



### VALVE STRUCTURE

- ▣ solid bar valve body
- ▣ no dead spaces
- ▣ completely draining
- ▣ all mounting positions possible

### COMPLETE PRODUCT PROTECTION

- ▣ no sump or dome
- ▣ high quality interior surfaces
- ▣ perfectly cleanable

### SAFETY

- ▣ clip around body and actuator
- ▣ suitable for all liquid media

### ECONOMIC EFFICIENCY

- ▣ building block system: easy change from hygienic to aseptic realisation
- ▣ standard seals
- ▣ spare parts from the angle valve product range

# TECHNICAL DATA

<b>MATERIAL</b>	in contact with product	1.4404/AISI 316L	
	optionally	1.4435/AISI 316L	
	not in contact with product	1.4301/AISI 304	
<b>SEALS</b>		EPDM (FDA)	PTFE (FDA)
<b>TEMPERATURES</b>	for continuous operation	130 °C (EPDM)* 266 °F	121 °C 250 °F
	for sterilisation	150 °C (EPDM)* 302 °F	135 °C (for a short time) 275 °F (for a short time)
<b>PRESSURE</b>	operating pressure	max. 6 bar (standard edition) max. 87 psi (standard edition)	
	control pressure	min. 6 bar – max. 10 bar min. 87 psi – max. 145 psi	
<b>SURFACES</b>	in contact with product	Ra <= 0,8 µm	
	not in contact with product	rotated, Ra <= 1,6 µm	
	optionally	higher quality surfaces on demand	
<b>CONNECTIONS</b>	standard	welding end	
	optionally	all common threads and flange connectors	

\* depending on operating parameters

## REFERENCES

... familiar with many sectors

<b>PHARMACEUTICAL INDUSTRY / BIOTECHNOLOGY / COSMETICS / CHEMICAL INDUSTRY</b>	B. Braun Melsungen	Kwizda Pharma
	Bayer Schering Pharma	Merck
	Dr. Hobein (Eubos)	Novartis
	Ecolab	Queisser Pharma
	Fresenius Medical Care	Rentschler
	HAKA Kunz	Sandoz
	Inova pharma systems	Sanofi-Aventis
	kocher-plastik	Sartorius
<b>DAIRIES</b>	Bayernland	Kärntnermilch
	Bergland Naturkäse	Meggle
	Breisgaumilch	MZG Molkerei Zeulenroda
	Campina	Nordmilch
	Danone	Starmilch
	Ehrmann	Tirol Milch
	Hochwald	Zott
<b>BEVERAGES</b>	Altmühltaler Mineralbrunnen	Mineralbrunnen AG
	Brandenburger Urstromquelle	Ricker Fruchtsäfte
	Brasserieies Kronenbourg	Sinziger Mineralbrunnen
	EICO-Quelle	Thüringer Waldquell
	Glashäger Brunnen	WEG Weser-EMS
	Markengetränke Schwollen	Ybbstaler Fruchtsaft
<b>PLANT ENGINEERING</b>	ALPMA Alpenland Maschinenbau	Krones
	AT Anlagentechnik	Löhrke
	Belimed	LTH Dresden
	BIS Industrietechnik Salzburg	MHG Anlagenbau
	Döhler Engineering	Miteco AG
	Elopak	Oystar-Gruppe
	Höfliger	Pharmaplan
	HOSOKAWA ALPINE	Ruland
	Idoneus	Seppelec
	KHS	SIG Combibloc Systems
	Kinetics	Tetra Pak

Further references on request. Please use our contact form on our website [www.rr-rieger.de](http://www.rr-rieger.de)

# ASEPTIC VALVES IN OPERATION

## ... in dairies, for food and beverages



New production techniques and a high safety of process equipment are the challenges of the future. RIEGER valves make a contribution to achieve a maximum of productivity, safety and quality in dairies, food and beverage industry.

Strictly made of solid bar, the valve bodies even comply with very high requirements in terms of puncture resistance, absence of distortions and stability. Precisely tailored, either as single valve or combined to valve blocks, they accurately fit in installations while being exchangeable among each other.

The building block system allows unproblematic change between manual and pneumatic actuation as well as between hygienic and aseptic realisation. Equally, a modification of the sealing system is simple – from “spring close / air open” to “spring open / air close” and vice versa.

Thus, RIEGER valves are easily adaptable to changing process requirements.



### THE RIEGER VALVE RANGE STANDS FOR



## ... in the pharmaceutical, chemical and bioengineering industry

Aseptic production equipment in the area of the pharmaceutical and biotechnological industry set new benchmarks for aseptic components such as valves. These are only met with a consequent selection of materials and an uncompromisingly aseptic realisation.

Integrated into pharmaceutical installations for absolutely clean applications, RIEGER valves successfully demonstrate their excellent aseptic properties since years by hermitically separating products from the environment.

RIEGER valves are used globally, complying with the requirements of each climate zone: in breweries in Mexico, in dairies and breweries in China and Vietnam, in pharmaceutical installations in Brazil and in mineral wells in Germany. As renowned German company and part of the worldwide operating Neumo-Ehrenberg-Gruppe, RIEGER disposes of the necessary economic capacity and international experience to supply all markets.

Whether being bottom seat valves for fermenters, inclined seat valves with bottling functions or sampling valves, always the construction emphasis is laid on the proper aseptic operation of the valves.



### PERFECT RELIABILITY IN PROCESS CONTROL AND IN INSTALLATIONS.



# THE COMPANY



The firm Rieger Brothers is a company with long tradition. It was founded 1879 as machine factory in the centre of Aalen. At the beginning of 1991, the company moved into a new and modernly conceived factory building at the outskirts of Aalen.

Being subdivided into the two departments machine factory and aluminium foundry, today, Rieger Brothers is member of the worldwide operating Neumo-Ehrenberg-Gruppe.

Rieger Brothers' machine factory successfully competes in the areas of armatures, valves, welded constructions and tap pumps. All products are basically made of stainless steel, offering the full range of stainless steel types from AISI 304 via 316 L up to hastelloy steel and special materials.



HISTORICAL IMAGES





Our products, which prove their worth in long duration utilisation, and especially our constructions in the aseptic valve area are primarily used in the chemical, pharmaceutical and food industry. Rieger Brothers offers for many sectors mature solutions in stainless steel.

Experienced and motivated employees ensure the high quality standard of our products. Modern manufacturing technology like machining centres lay the foundation of a distortion-free utilisation of our armatures, valves and components.

The more advanced will prevail over the already well – following this spirit, our construction department continuously develops new solutions to support our clients in optimising their processes. Inspired by client specific challenges, their solutions are convenient for many clients.

Our striving for improvement was first rewarded in 2005 with the certification according to ISO 9001/2000. The re-certifications in the years 2008 and 2011 according to ISO 9001:2008 guarantee our clients that our attention will continue to be focussed on innovation, customer proximity and the reliability of our products.



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