

HANDTMANN COMPONENTS

Valves and Fittings for Hygienic Processes - Technical Data



OUR EXPERIENCE - YOUR SAFETY

Products for your Industry





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Product film tank protection:

Scan QR code with your smartphone or tablet -> watch the video of the Product film tank protection directly on the Handtmann website.



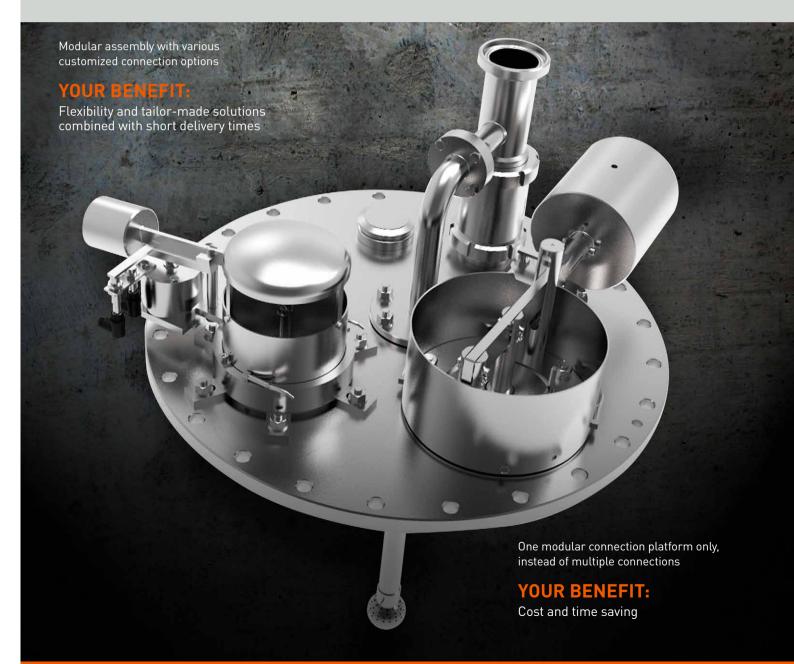




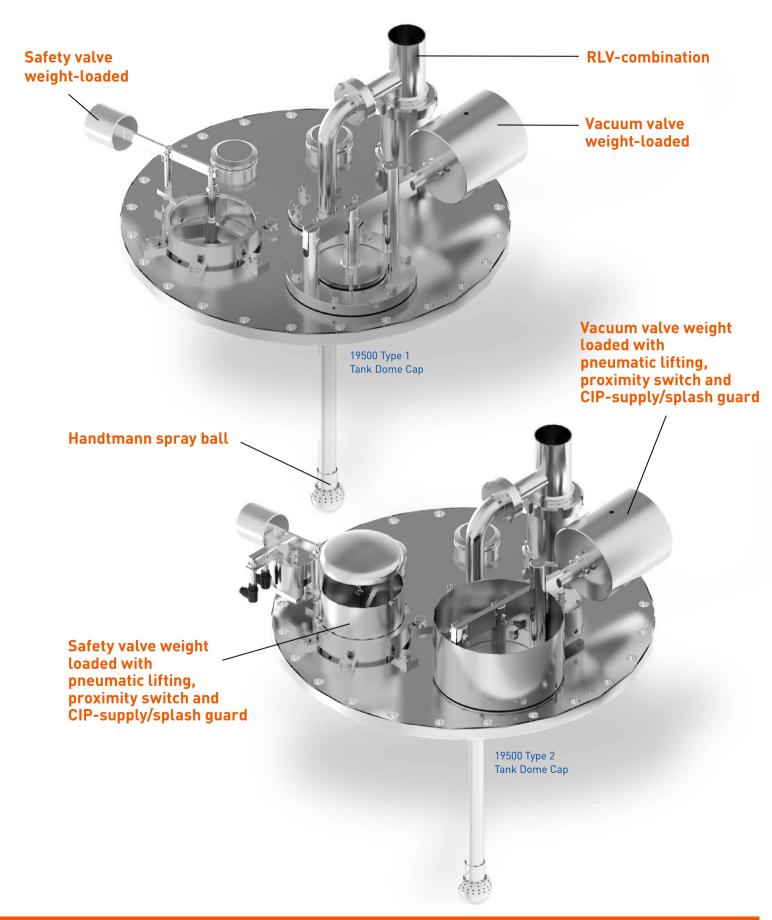


TANK DOME CAP

Modular, technical platform for a simple combination of different functions



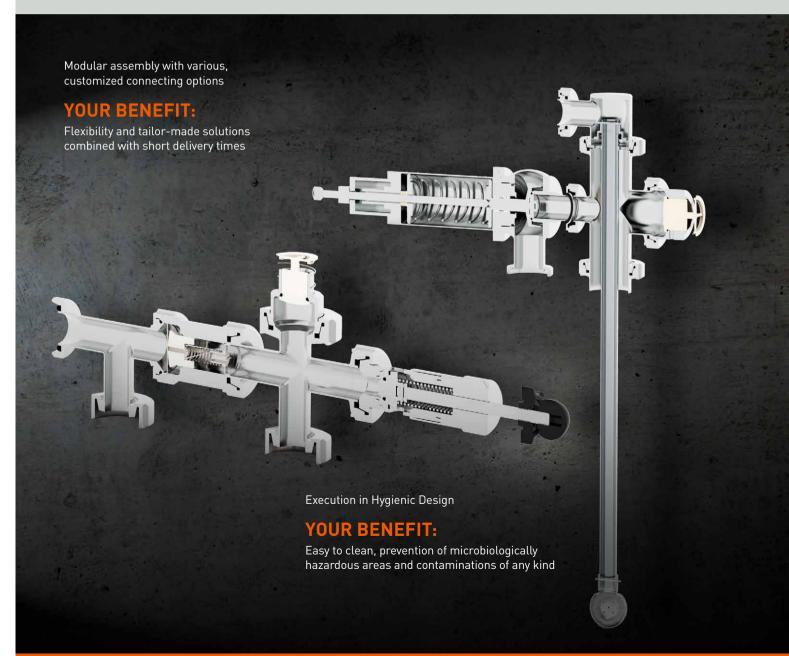
TANK DOME CAP TYPE 1 & TYPE 2



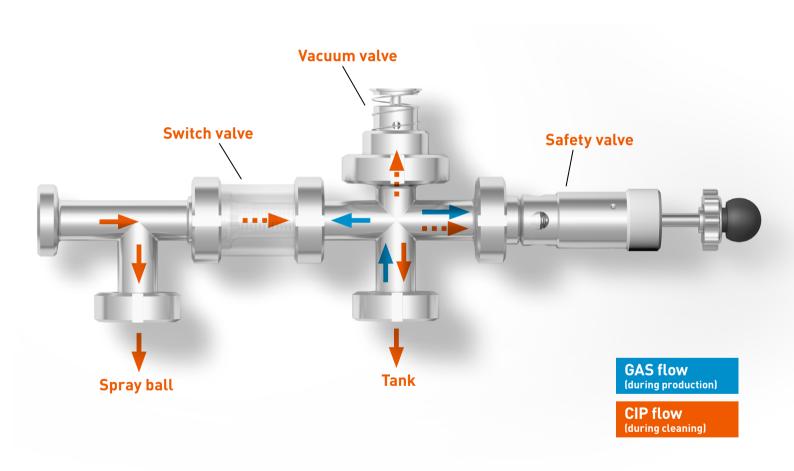


CLEANING-AIR-VALVE COMBINATION (RLV)

Compact, modular, mechanical combination of various functions







Production

• The tank is secured against overpressure and vacuum

Cleaning

- Tank CIP via spray ball, mounted at the first tank connection.
- Approx. 90% of the CIP liquid are being led through the spray ball for tank cleaning.
 Approx. 10% of the CIP liquid flows through switch valve, and cleans the seats of vacuum and pressure relief valve, too.



Safety valve weight-loaded Type 32010

SAFETY VALVES

For overpressure protection of tanks and systems





Minimal dead space safety valve Type 33503



INOVA safety valve ASME (UV) execution Type 33551

Туре	33551 ASME	33651 ASME	33501 33521	33601 33621	33503 33603	33502	33602	32500 32501 32502	32503	32603	32504	32604	32010
Nominal DN-sizes Nominal OD-sizes	25 – 80 (1" - 3")	25 – 80 (1" - 3")	15 – 80 (½" - 3")	15 – 80 (½" - 3")	40 – 80 -	50 (2")	50 (2")	15 – 25 [½" - 1"]	15 – 40 (½" - 1 ½")	15 – 40 (½" - 1½")	25 – 40 (½" - 1 ½")	25 - 40 (½" - 1½")	65 - 125 (2½" - 6")
Set pressure (special pressure on request)	1,0 – 10,0 bar	1,0 – 10,0 bar	0,5 – 10,0 bar	0,5 – 10,0 bar	0,5 – 10,0 bar	0,5 – 10,0 bar	0,5 – 10,0 bar	0,5 – 5,0 bar	0,5 – 10,0 bar	0,5 – 10,0 bar	0,5 – 10,0 bar	0,5 – 10,0 bar	0,5 – 5,0 bar
Media: Steams, gases, liquids	** 33	***	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u> 🐝	<u></u>	<u></u>	<u></u>
Functional principle	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	-
Options													
Manual lifting	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pneumatic lifting	-	✓	-	✓	✓	-	✓	-	-	✓	-	✓	✓
Proximity switch	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Heating device	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Scale for pressure adjustment	-	-	√	√	√	✓	✓	√	√	√	√	√	-
Sealing against changing the pres- sure, changing the spring and by TÜV	~	~	~	~	~	~	~	~	~	~	~	~	-

General execution:

Materials: 1.4301, 1.4307, 1.4404 Sealing materials: EPDM, FKM,

• Range of application: from 0-90°C, +140°C short term

Surface roughness of media touched parts: Ra \leq 0,8 µm (other surface qualities on request)

Connection options:

Tri-clamp connection: DIN 32676, ASME BPE, ISO 2852, DIN 11853/11864

Thread: DIN 11851, DIN 11853/11864

Welding end: DIN 11850

Flange connection: DIN EN 1092, ASME B16.5, DIN 11853/11864 Collar coupling: DIN 11853/11864

Cone/Nut: DIN 11851

Special connections on request

Functional principle:

 Δ Spring-loaded

■ Weight-loaded

* Liquids

Steams

Gases



VACUUM VALVES

For the vacuum protection of tanks and systems







Туре	12501	12525	12537	12515	12502	12519	12504	12819	12507
Nominal DN-sizes	25-80	25-80	50-80	100 -125	25-80	25-65	80-400	80-400	50-100
Opening pressure	3-5 mbar	3-5 mbar	3-5 mbar	3-5 mbar	3-5 mbar	3-5 mbar	3-5 mbar	3-5 mbar	3-5 mbar
Installation	vertical & horizontal	vertical & horizontal	horizontal	vertical	vertical	vertical	vertical	vertical	vertical
Functional principle	Δ	Δ	Δ	Δ	•				
Options									
Manual lifting	✓	✓	✓	✓	✓	✓	✓	✓	-
Pneumatic lifting	-	-	-	✓	✓	✓	✓	✓	✓
Proximity switch	✓	✓	✓	✓	✓	✓	✓	✓	✓
Heating	✓	✓	✓	✓	✓	✓	✓	✓	✓
External CIP-device with splash guard	-	-	-	-	-	-	✓	-	-
Special opening pressure on request	-	-	-	-	✓	✓	3 – 200 mbar	3 – 200 mbar	-
Plastic valve cone	√	-	-	-	✓	-	-	-	✓
Stainless steel valve cone	-	✓	✓	✓	at DN 80	✓	✓	✓	-

General execution:

Materials: 1.4307, 1.4404 Sealing materials: EPDM

• Range of application EPDM:from 0-90°C, +140°C short term

Surface roughness of media touched parts: Ra \leq 0,8 μ m (other surface qualities on request)

Connection options:

Cone/Nut: DIN 11851 Flange connection

Functional principle:

Δ Spring-loaded■ Weight-loaded



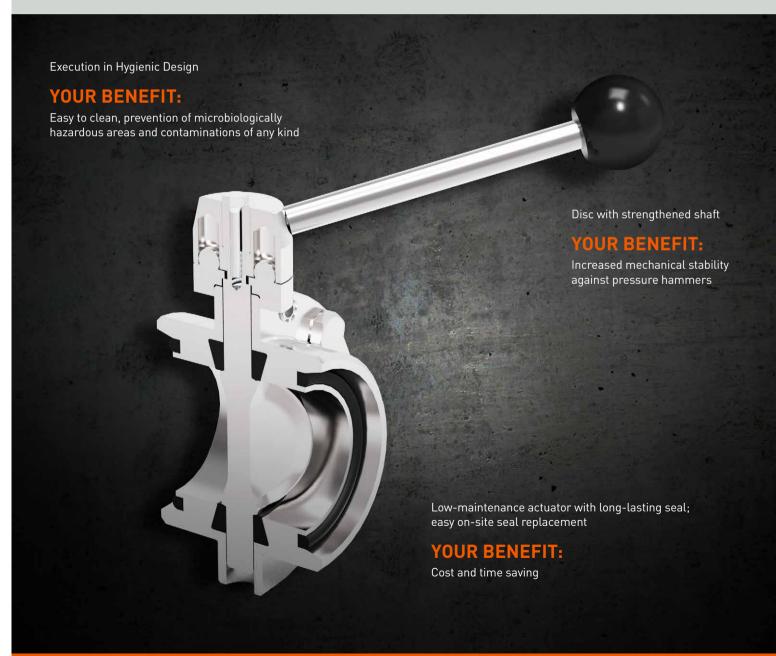
Butterfly valve with control head Type 448



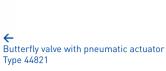
Manual butterfly valve, execution between flanges Type 447

BUTTERFLY VALVES

For the control and regulation of process media









← Control butterfly valve Type 44937

Туре	440	444	446	447	448 / 449
Nominal DN-sizes Nominal OD-sizes	25-150 (1"-6")	25-150 (1"-6")	25-150 (1"-6")	25-200 (1"-8")	25-200 (1"- 8")
Media: Steams, gases, liquids	<u></u> 🐝 🐝	<u></u> 🐝 😘	<u> </u>	<u> </u>	<u> </u>
Options					
Air-opening/spring closing	-	-	✓	-	✓
Design, Function					
Operating pressure: 0-10 bar	✓	✓	✓	✓	✓
Temperature: 0° to 95°C /150°C short-term	✓	✓	✓	✓	✓
Control head					
Electrical control: 4 - 20mA, Profibus	-	✓	✓	-	✓

General execution:

Materials: 1.4301, 1.4307, 1.4404

Sealing materials: EPDM, HNBR, FDA compliant

• Range of application EPDM: from 0-90°C, +140°C short term

Surface roughness of media-touched parts: Ra < 0,8 µm (other surface qualities on request)

Connection options:

Tri-clamp connection: DIN 32676, DIN 11853/11864, OD

Thread: DIN 11851, DIN 11853/11864

Welding end: DIN 11850, OD Cone/Nut: DIN 11851

Execution between flanges welding end: DIN 11850, OD

Special connections on request

Functional principle:

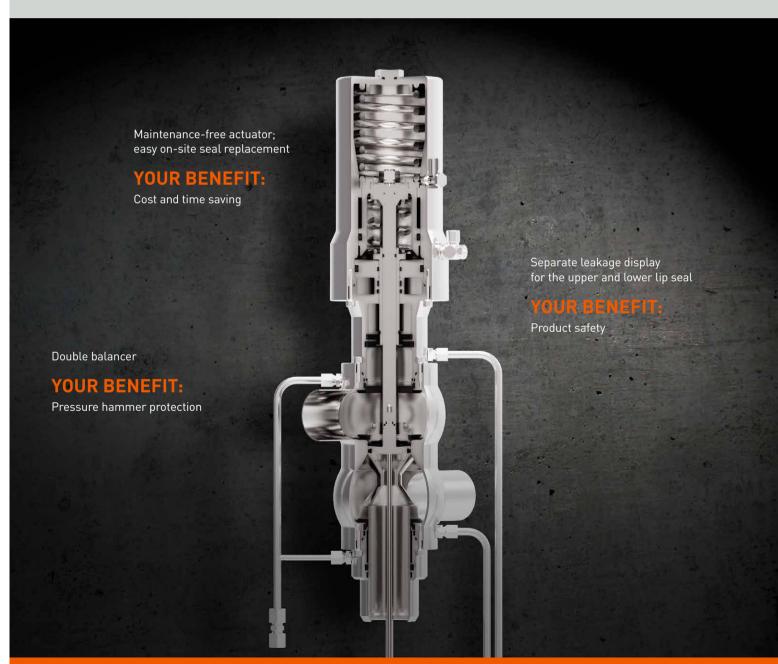
¼ Liquids<u>Steams</u>

Gases



DOUBLE SEAT VALVES

For a safe separation of different media





← INOVA double seat valve Type 491



← INOVA double seat valve with control head Type 580

Туре	491	580
Nominal DN-sizes Nominal OD-sizes	50 - 150/200 (2"-4")	50 - 150/200 (2"-4")
Media: Steams, gases, liquids	<u></u>	<u></u> 🦠 🔥
Control air pressure	> 5 bar	> 5 bar
Pressure hammer protection	✓	✓
Leakage-free switching	✓	✓
Options		
Single seat lifting	-	✓
Leakage chamber cleaning	✓	✓
Balancer cleaning	✓	✓
Control unit (monitoring, control position, reply)	✓	1
Connection head with display	✓	✓
Compressed air connection Ø 6/4 mm or 8/6 mm	✓	✓
Proximity switch	✓	✓
Various housing shapes (2-3-4 connections combinable with various DN-sizes)	✓	1
Connection option ASI-Bus-Control	✓	✓
Design, function		
Set pressure: 0-10 bar	✓	✓
Temperature: 0° bis 95°C/150°C short term	✓	✓

General execution:Materials: 1.4301, 1.4307, 1.4404 Sealing materials: EPDM

• Range of application EPDM: from 0-90°C, +140°C short term
Surface roughness of media touched parts: Ra ≤ 0,8 μm (other surface qualities on request)

Functional principle: ** Liquids ** Steams

Gases

BLOCK AND BLEED VALVE COMBINATION

For leakage protection









← Block and Bleed valve combination Type 74830

Туре	74830							
Butterfly valves nominal sizes DN Butterfly valves nominal sizes OD	25 (1")	40 (1½")	50 (2")	65 (2½")	80 (3")	100 (4")	125 -	150 -
Diaphragm valve DN	15	15	15	15	15	15	15	15
Operating pressure: 0-10 bar	✓	✓	✓	✓	✓	✓	✓	✓
Temperature 0 ° to 70 °C hot lye	✓	✓	✓	✓	✓	✓	✓	✓
Temperature 0 ° to 90 °C hot water / 140 °C short-term (with EPDM)	✓	✓	✓	✓	✓	✓	✓	✓

General execution:

Materials: 1.4301, 1.4404

Sealing materials: EPDM, FDA proof
• Range of application EPDM: from 0-90°C, +140°C short term
Surface quality of media touched parts: Ra \leq 0,8 µm (other surface qualities on request)

Connection options:

Intermediate flange design welding end Special connections on request

SPECIAL COMPONENTS

For process control, aeration and reliable separation of beer







Туре	Aeration system type 74002	Aeration system type 74003	Aeration system type 74004
Nominal DN-sizes	25-150	25-100	25-80
Installation position	vertical & horizontal	vertical & horizontal	vertical & horizontal
Output	up to 1,900 hl/h	up to 500 hl/h	up to 250 hl/h
Design, Function			
Operating pressure: 0-10 bar	✓	✓	✓
Temperature 0° to 140°C	✓	✓	✓
CIP/SIP capability	✓	✓	✓

General execution:

Materials: 1.4307, 1.4404 Sealing material: EPDM

• Range of application EPDM: from 0-90°C, +140°C short term

Surface properties of media touched parts: $Ra \le 0.8 \mu m$ (other surface qualities on request)

Connection options:

Coupling: DIN 11851, DIN 11864

Туре	System armature type 308
Nominal sizes DN	25-100
Design, Function	
Operating pressure: 0-10 bar	✓
Temperature 0° to 95°C	✓

Туре	Double tank outlet type 30301
Nominal sizes DN	25-150
Tank connection DN	50-150
Drainage of clean media DN	25-100
Drainage of left-overs	25-100

General execution:

Materials: 1.4307, 1.4404 Sealing materials: EPDM, HNBR

Surface quality of media touched parts: Ra \leq 0,8 μ m

(other surface qualities on request)

Connection options: Welding end: DIN 11851

General execution:

Materials: 1.4307, 1.4404 Sealing materials: EPDM, HNBR

Surface quality of media touched parts: Ra \leq 0,8 μ m

(other surface qualities on request)

Connection options:

Welding end: DIN 11851

Flanges



Bunging device

OVERFLOW VALVES, PRESSURE RETENTION VALVES, BUNGING DEVICES

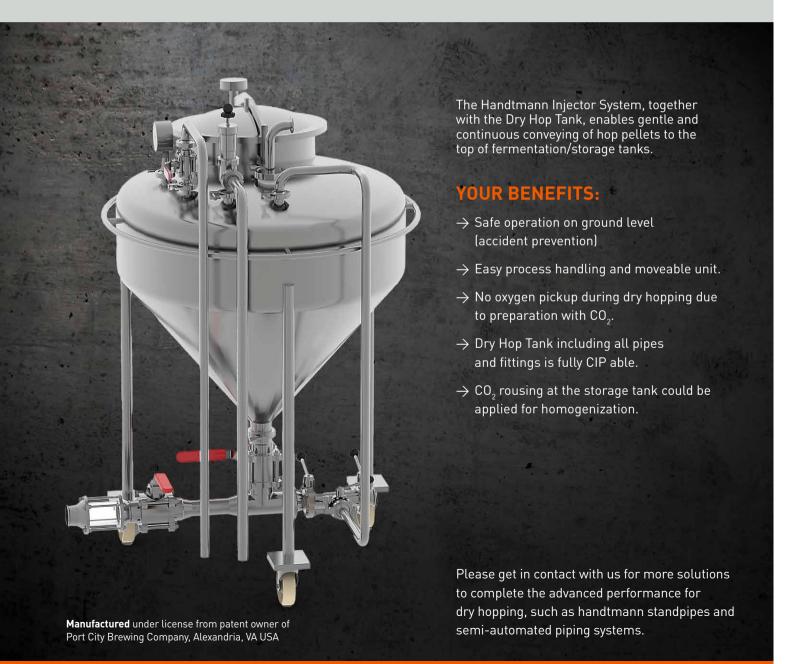
For process control





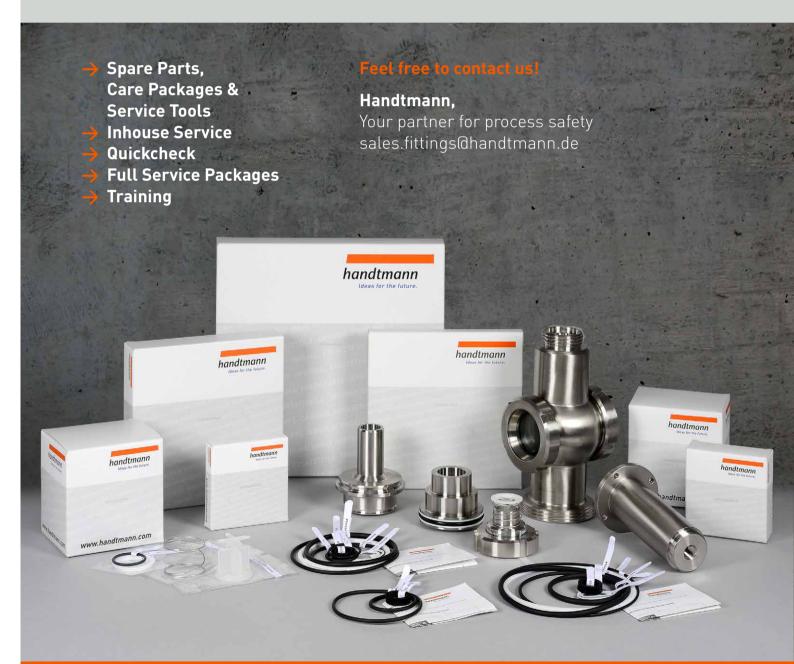
HOP TO THE TOP

Hop pellets will be dispersed on the complete liquid surface of the tank before settling through and getting dissolved into the beer.

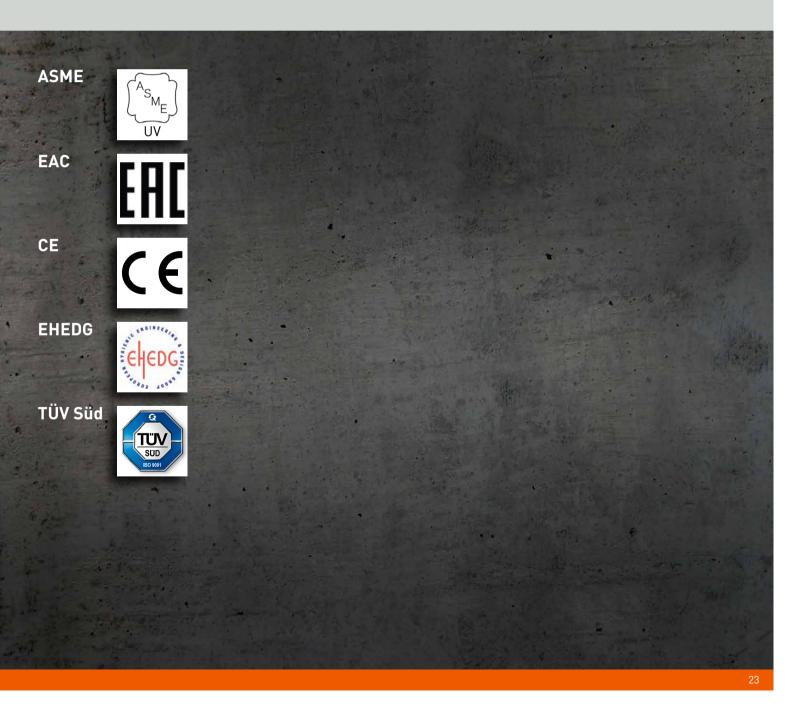


SERVICE SOLUTIONS

Long-term preservation of your components and systems



CERTIFICATIONS





YOUR PARTNER

Made in Germany





