

Stainless Steel Cleaning Technology



Your experts for CIP:

- wide range of cleaning devices, included products which meets the requirements of published 3-A Sanitary Standards
- ATEX-products
- a solution for each task
- shortest delivery times, quantity of products on stock
- 100 years experience in stainless steel handling
- Made in Germany



Quality and attractive prices:

- development, fabrication and distribution at first hand
- standardized fabrication procedures
- certified fabrication and quality service
- experience in ASME-BPE, 3A, EHEDG
- FDA-compliant products
- certificates: material 3.1, delta-Ferrit, Ra, ATEX, USP class VI
- stainless steel materials: 316L - 316Ti - HC22 - HC4
1.4404 - 1.4571 - 1.4435 - 2.4610 - 2.4602

The way to order:

phone: +49 (0) 3 94 05-92-0

email: cip@awh.de

Our target is short delivery time, large quantities of products are available from stock.

For further information please visit our Internet site:
www.awh.de



Spray heads for all purposes – economically efficient cleaning of vessels and tanks

Beside the high standards of cleanliness, the economically efficient cleaning of vessels is coming to the fore nowadays. Along with the investment cost issue, the operating expenses are increasingly being discussed.

The center stage is taken by:

- The reduction of cleaning agent consumption
- The reduction of cleaning duration
- The increase of the equipment availability
- The increase of the operational safety
- The validation of the cleaning processes via sensors

A cleaning machine is nowadays selected on the basis of the application or task and not according to the currently available technology. The best possible solution for the cleaning of vessels varies with the vessel geometry and its use.

Potential spray shadows, due to various installations, connection pieces and manholes are to be observed likewise.

For this, AWH offers a product programmed with a comprehensive spectrum of devices and the required, appropriate application knowledge.

The cleaning technology of AWH has been revised, reconstructed and improved in many areas.

This is reflected by the new nomenclature:

TANKO [®] RB	= rotating ball
TANKO [®] S	= spate cleaner
TANKO [®] JX	= jet cleaner with external motor
TANKO [®] RPB	= rotating pipe ball
TANKO [®] RT	= retractable system

Within the area of medium-driven jet cleaners you will find the well proven and revised devices:

- TANKO[®] JM100
- TANKO[®] JM500
- TANKO[®] JM800

The static spray balls complete the product range of the cleaning devices.

The product range is completed by the monitoring devices CIPMon:

- CIPMon SCII (sound analyzer) for the extended jet cleaning surveillance

Various fittings such as:

- TANKO[®] AN weldon nipples with an "outlet lip" as rotating piece , also available with additional thread protection.
- Downpipe concepts for the installation of the RT devices within the tank
- Mounting tools (pliers with plastic-coated jaws)

The product range is continuously being further developed. Please inquire for new variants or modifications.

On request we can submit the various certificates (e.g. 3.1 certificate) for the cleaning devices.

The surface roughness of the applied materials is $\leq 0,8\mu\text{m}$, others upon request. Please quote this requirement in your inquiry additionally to the product request.

The choice of the appropriate cleaning device is facilitated by:

- | | | |
|-----------------------------|---|----------------|
| • The project data sheet | → | see page 15 |
| • The project questionnaire | → | see page 16-17 |
| • Down pipe system | → | see page 20 |
| • Jet Cleaners | → | see page 114 |

Please note that the presented cleaning devices should be supported by an appropriate filter system (corner pipe strainer or others) with mesh sizes of 50 μm according to the application) for best performance.

ATTENTION:

Important information for our customers within the European Economic Area regarding the Directive on Machinery 98/37/EU and 2006/42/EU and 2006/42/EU Machinery Directive EN, respectively.

Unless agreed differently, AWH will consider the user language to be "German" or "English". The customer / ordering party will inform Messrs. AWH of any diverging user language. In such a case, AWH will immediately revise the quotation and complement same, if necessary.

Before commissioning of the AWH cleaning units and the products in this catalog at the latest, it has to be ensured that the proper use of these units is guaranteed. The respective instructions are contained in the operating instructions of the AWH products or will be put at your disposal upon request. Contact address CIP@AWH.de or by telephone.

**Make use of these options offered by AWH. Contact us.
And click on our special catalogue on the internet: www.awh.de**

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Ball bearings

The integrated ball bearings of the TANKO® series are subject to minor wear. The guaranteed service life is as follows: Service life of 300 hours in vertical fitting position, spraying downwards, assuming a cleansing agent pressure (water) of 3 bar at a temperature of 25 °C. Based on an average cleaning cycle time of 20 minutes per day and 200 days per year this corresponds to a service life of 4.5 years. Determined values for working pressure 2 bar are different and available on request.

The typical lifetime is considerably higher than the guaranteed lifetime and depends on working pressure and other parameters.

To apply additionally: term of guarantee max. 24 months after delivery.

Information on consumptions:

All information on consumptions in this catalogue is a reference value. Please contact us for more detailed information.

Attention !!

For specific tasks AWH will gladly manufacture tailor-made solutions according to your requirements!

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Overview TANKO® Series

Type	Page	Installation position Spraying angle	Type of Cleaning	Recommended maximum diameter for cleaning in [m]	Maximum spraying distance as diameter in [m]
TANKO® S10	38 - 39	freely selectable 360°	Surge cleaning		
TANKO® S20	40 - 47	freely selectable 90°/180°/270°/360°	Surge cleaning		
TANKO® S30	48 - 57	freely selectable 90°/180°/270°/360°	Surge cleaning		
TANKO® S40	58 - 69	freely selectable 90°/180°/270°/360° 360° HF	Surge cleaning		
TANKO® S50	70 - 77	freely selectable 180°/270°/360°	Surge cleaning		
TANKO® RB30	88 - 91	freely selectable 180°/360°	Spray cleaning		
TANKO® RB40	92 - 95	freely selectable 180°/270°/360°	Spray cleaning		
TANKO® RB64	96 - 99	freely selectable 180°/270°/360°	Spray cleaning		
TANKO® RB90	100 - 103	freely selectable 180°/270°/360°	Spray cleaning		

Overview TANKO® Series

Operating pressure [bar]		Volume flow rate [l/min]		Volume flow rate [m ³ /h]		Mode of drive	Connections
	0 2 4 6 8 10 12 14 16 18		0 2 4 6 8 10 100 180		0 0,5 2 4 6 8 10 12 14 16	Continuous cleansing agent flow, Supported in double ball bearings	thead M5 weldon nozzle
	0 2 4 6 8 10 12 14 16 18		0 2 4 6 8 10 100 180		0 0,5 2 4 6 8 10 12 14 16	Continuous cleansing agent flow, Supported in double ball bearings	1/8"-BSP, NPT, NPS Clipon weldon nozzle
	0 2 4 6 8 10 12 14 16 18		0 2 4 6 8 10 100 180		0 0,5 2 4 6 8 10 12 14 16	Continuous cleansing agent flow, Supported in double ball bearings	1/4"-BSP, NPT, NPS 3/8"-BSP, NPT, NPS Clipon weldon nozzle
	0 2 4 6 8 10 12 14 16 18		0 2 4 6 8 10 100 180		0 0,5 2 4 6 8 10 12 14 16	Continuous cleansing agent flow, Supported in double ball bearings	1/2"-BSP, NPT, NPS 3/4"-BSP, NPT, NPS Clipon weldon nozzle
	0 2 4 6 8 10 12 14 16 18		0 2 4 6 8 10 100 180		0 0,5 2 4 6 8 10 12 14 16	Continuous cleansing agent flow, Supported in double ball bearings	1 1/4"-BSP, NPT, NPS 1 1/2"-BSP, NPT, NPS Clipon weldon nozzle
	0 2 4 6 8 10 12 14 16 18		0 2 4 6 8 10 100 180		0 0,5 2 4 6 8 10 12 14 16	Continuous cleansing agent flow, Supported in double ball bearings	Clipon 1/4"-BSP, NPT, NPS 3/8"-BSP, NPT, NPS weldon nozzle
	0 2 4 6 8 10 12 14 16 18		0 2 4 6 8 10 100 180		0 0,5 2 4 6 8 10 12 14 16	Continuous cleansing agent flow, Supported in double ball bearings	Clipon 3/8"-BSP, NPT, NPS 1/2"-BSP, NPT, NPS weldon nozzle
	0 2 4 6 8 10 12 14 16 18		0 2 4 6 8 10 100 180		0 0,5 2 4 6 8 10 12 14 16	Continuous cleansing agent flow, Supported in double ball bearings	Clipon 3/4"-BSP, NPT, NPS weldon nozzle
	0 2 4 6 8 10 12 14 16 18		0 2 4 6 8 10 100 180		0 0,5 2 4 6 8 10 12 14 16	Continuous cleansing agent flow, Supported in double ball bearings	Clipon 1"-BSP, NPT, NPS weldon nozzle

Overview Jet Cleaners

Type	Seite	Installation position	Type of Cleaning	Recommended maximum diameter for cleaning in [m]	Maximum spraying distance as diameter in [m]
TANKO® JX70	116 - 119	freely selectable	2, 3 or 4 14 min ⁻¹		
TANKO® JX75	116 - 119	freely selectable	2, 3 or 4 14 min ⁻¹		
TANKO® JX80	116 - 119	freely selectable	2, 3 or 4 14 min ⁻¹		
TANKO® JM100	122 - 123	vertical, other on request	2 x 2 5-20 min ⁻¹		
TANKO® JM500	124 - 125	vertical, other on request	2 x 2 5-20 min ⁻¹		
TANKO® JM800	126 - 127	vertical	1 x 3 5-20 min ⁻¹		



The cleaning device type **TANKO® JX** is intended for industrial plants. They meet the explosion protection requirements of directive 94/9 EC (ATEX 100a).

Speed range: 5 - 60 U/min
 Operating pressure: 1 - 60 bar
 Cleansing agent: < 60°C / 110°C

Please enquire for details !

II 1/2 G c TX
 II 1/3 G c TX

Explanation:
 G = gas
 c = constructional safety

Operating instruction enclosed to each ATEX delivery.



The current information on component approval of cleaning devices.

TANKO® EX - S20 **TANKO® EX - RB30**
TANKO® EX - S30 **TANKO® EX - RB40**
TANKO® EX - S40 **TANKO® EX - RB64**
TANKO® EX - S50 **TANKO® EX - RB90**

II 1 GD c T(X) □*

Explanation:
 G = gas
 D = dust
 c = constructional safety

EX5 06 08 550 73 002

Volume flow rate: < 680 l/min *
 Operating pressure: < 12 bar **
 Cleansing agent: < 180°C

Please enquire for details !

* dependent on model and cleansing agent
 ** dependent on model

Operating instruction enclosed to each ATEX delivery.

Extra charge on standard products of TANKO® S and RB:
 Item no.: apply the appropriate article no. and add „X“.

on request ¹⁾

Example: 665 _____ X

¹⁾ Price apply for user language german or english, other user languages on request.



The current information on component approval of cleaning devices.

TANKO® RT100 - ATEX **TANKO® RTS100 - ATEX**
TANKO® RT150 - ATEX **TANKO® RTS150 - ATEX**
TANKO® RT250 - ATEX **TANKO® RTS250 - ATEX**
TANKO® RT500 ATEX

II 1/2 GD c b TX □*

Explanation:
 G = gas
 D = dust
 c = constructional safety
 b = ignition source control

BVS 10 ATEX H 006 X

Volume flow rate: 27 - 167 l/min
 Operating pressure: 3 bar
 Cleansing agent: < 70°C

Please enquire for details !

* dependent on model and cleansing agent

Operating instruction enclosed to each ATEX delivery.

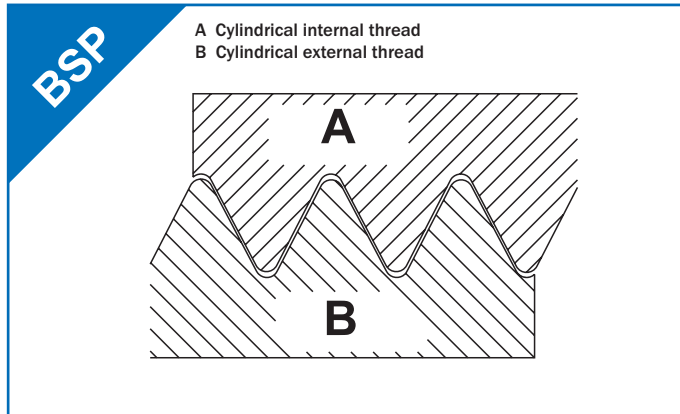
ATEX Operating Instructions (repeat order for cleaning devices already in use)

Price/EUR	Item no.	
on request	664BA010 7 06DTX	Operating Instructions ATEX german TANKO® S and RB
on request	664BA020 6 07DTX	Operating Instructions ATEX german TANKO® JX
on request	664BA010 7 06ENX	Operating Instructions ATEX english TANKO® S und RB
on request	664BA020 0 00ENX	Operating Instructions ATEX english TANKO® JX

Pipe thread descriptions

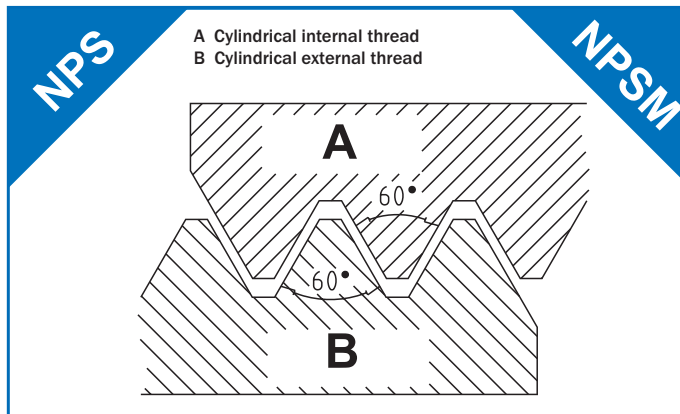
CYLINDRICAL THREAD

BSP British Standard Pipe
British Standard (cylindrical gas thread)



corresponds to
INTERNATIONAL ORGANIZATION FOR STANDARDS ISO 228/1
Internal thread and cylindrical external thread
Crests and depths of thread are round

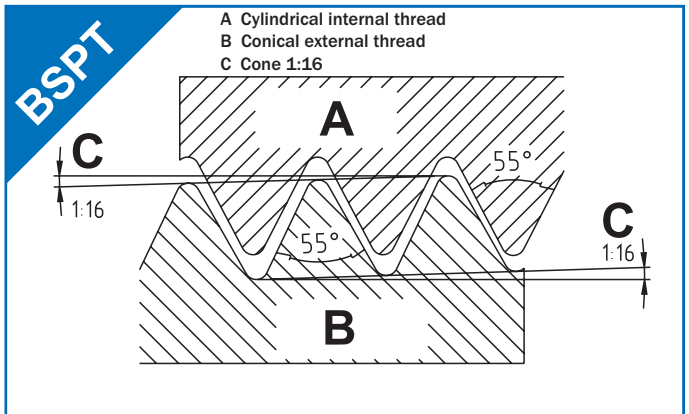
NPS – NATIONAL STRAIGHT PIPE
Not-sealing cylindrical pipe thread,
comparable with British Standard Pipe Thread BSP



Crests and depths of threads are flattened

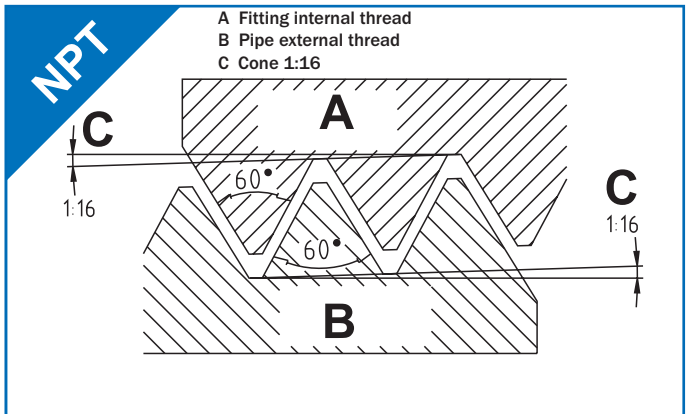
CONICAL THREAD

BSPT British Standard Pipe Taper
British Standard (conical gas thread)



similar to
Whitworth pipe thread for threaded pipes and fittings as per DIN 2999/1
Cylindrical internal thread and conical (cone 1 :16) external thread
Crests and depths of thread are round

NPT – AMERICAN STANDARD PIPE THREAD
(AMERIC. STANDARD PIPE THREAD) ANSI B 1.20.1
American pipe thread for self-sealing connection (conical) with sealant.

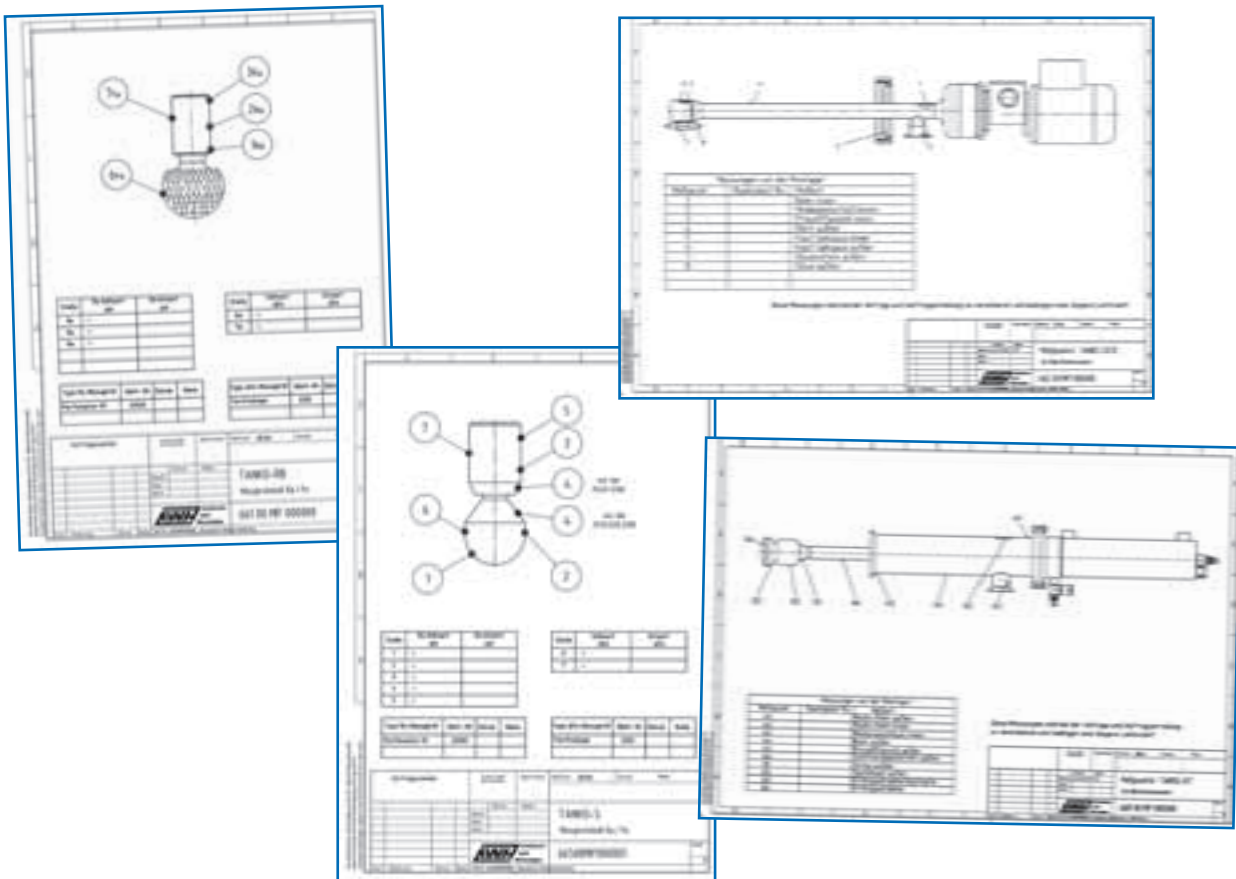


Crests and depths of threads are flattened

Further types of threads

ISO -	INTERNATIONAL ORGANIZATION FOR STANDARDS flank angle 60° Diameter and flank lead measured in mm	NPTF – National Pipe Thread Dry Seal 1/16 flank angle 60°	(USA)	
NC –	National Coarse Thread flank angle 60°	(USA)	BSW – British Standard Withworth Corase Thread flank angle 55°	(GB)
NF –	National Fine Thread flank angle 60°	(USA)	BSF – British Standard Fine Thread flank angle 55°	(GB)

Services: measuring points and material certificates



Measuring points TANKO® S

	measuring points	Item-No.	Price net/EUR
Roughness	1Ra, 2Ra, 3Ra	665 00 MP00 R003	on request
Roughness	1Ra, 2Ra, 3Ra, 4Ra, 5Ra	665 00 MP00 R005	on request
Δ-Ferrite content	6Fe, 7Fe	665 00 MP00 F002	on request

Measuring points TANKO® RT

	measuring points	Item-No.	Price net/EUR
Roughness: basic body	A1, A2, A3, A4, A5, A6	66R 00 MP01 R006	on request
Roughness: spray head TANKO® RPB-E	B1, B2, B3, B4	66R 00 MP02 R004	on request

Measuring points TANKO® RB

	measuring points	Item-No.	Price net/EUR
Roughness	1Ra, 2Ra, 3Ra	661 00 MP00 R003	on request
Δ-Ferrite content	6Fe, 7Fe	661 00 MP00 F002	on request

Measuring points TANKO® JX

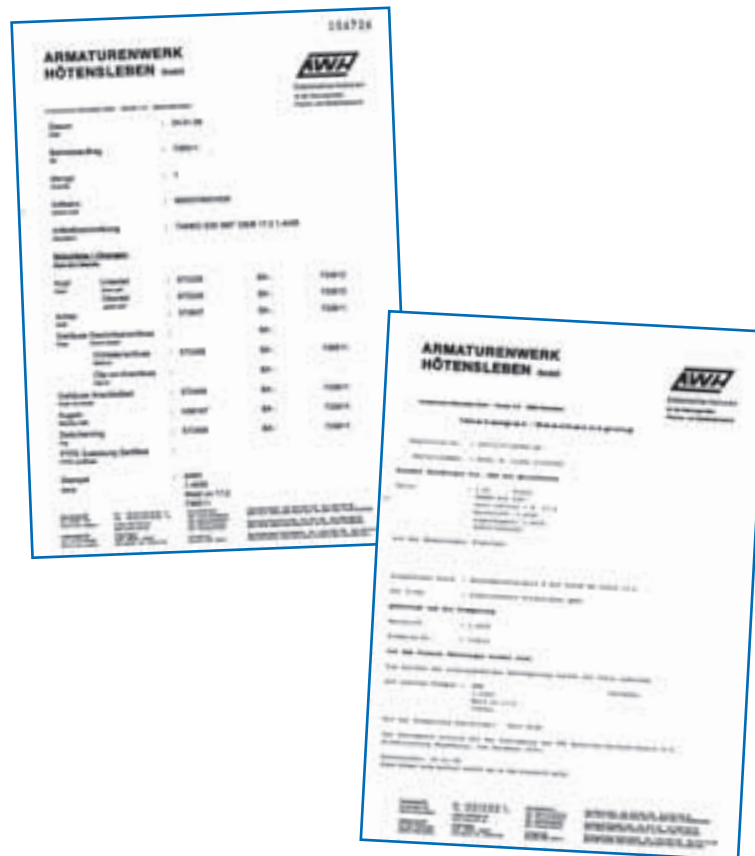
	measuring points	Item-No.	Price net/EUR
Roughness	1, 2, 3, 4, 5, 6, 7, 8	668 05 MP00 R008	on request

Measuring points, static spray head

	measuring points	Item-No.	Price net/EUR
Roughness	1Ra, 2Ra	66S 00 MP00 R002	on request
Roughness	1Ra, 2Ra, 3Ra	66S 00 MP00 R003	on request
Δ-Ferrite content	6Fe, 7Fe	66S 00 MP00 F002	on request

Additional measuring points

Measuring points for downpipes, weldon nipples and TANKO® R64T on request.



Certificate

Description	Item no.	Price net _{EUR}
2.1 for TANKO® JX70, 75, 80	66001Z21	on request
2.2 for TANKO® JX70, 75, 80	66001Z22	on request
3.1 for TANKO® JX70, 75, 80	66001Z31	on request
3.1 for TANKO® S/RB	66000Z31	on request
3.1 for TANKO® RT100-500	66002Z31	on request
3.1 for wire locking pins	66004Z31	on request
3.1 for static spray balls	66005Z31	on request
2.2 for ORBI G4, JUMBO 6-500, TANKMAN (has to be ordered before delivery)	66007Z22	on request
3.1 for TANKO® JM100, 500, 800	6600JZ31	on request
3.1 for TANKO-RPB/-RPBE	66009Z31	on request

Surface treatment

Description	Item no.	Price net _{EUR}
Surface treatment of TANKO® S/-RB to Ra ≤ 0,5µm (outside)	66S100H05	on request
Surface treatment of static sprayball to Ra ≤ 0,5µm (outside)	66S105H05	on request
Surface treatment of downpipe to Ra ≤ 0,5µm (outside)	66S106H05	on request
Electropolishing TANKO® S/-RB	66S200E00	on request
Electropolishing static spray ball	66S205E00	on request
Electropolishing downpipe	66S206E00	on request

TANKO® S and TANKO® RB with balls made of Hastelloy at extra charge

TANKO® S with balls made of Hastelloy at extra charge

Product	Material grade of balls	Add. charge per piece/EUR
TANKO® S10	2.4610 / HC4	on request
TANKO® S20	2.4610 / HC4	on request
TANKO® S20	2.4602 / HC22	on request
TANKO® S30	2.4610 / HC4	on request
TANKO® S30	2.4602 / HC22	on request
TANKO® S40	2.4610 / HC4	on request
TANKO® S40	2.4602 / HC22	on request
TANKO® S50	2.4610 / HC4	on request
TANKO® S50	2.4602 / HC22	on request

Extra charge to standard products of TANKO® S

Item no.:

Please apply the appropriate article no. and replace **00** by **0A** for 2.4602 or **0B** for 2.4610

Example: 665 03 76**00** 1351 TANKO® S30, 360° Standard

Example: 665 03 76**0A** 1351 TANKO® S30, 360° with balls made of 2.4602 / HC22

Example: 665 03 76**0B** 1351 TANKO® S30, 360° with balls made of 2.4610 / HC4

TANKO® RB with balls made of Hastelloy at extra charge

Product	Material grade of balls	Add. charge per piece/EUR
TANKO® RB30	2.4610 / HC4	on request
TANKO® RB30	2.4602 / HC22	on request
TANKO® RB40	2.4610 / HC4	on request
TANKO® RB40	2.4602 / HC22	on request
TANKO® RB64	2.4610 / HC4	on request
TANKO® RB64	2.4602 / HC22	on request
TANKO® RB90	2.4610 / HC4	on request
TANKO® RB90	2.4602 / HC22	on request

Extra charge to standard products of TANKO® RB

Item no.:

Please apply the appropriate article no. and replace **00** by **0A** for 2.4602 or **0B** for 2.4610

Example: 661 03 76**00** 1330 TANKO® RB 30, 360° Standard

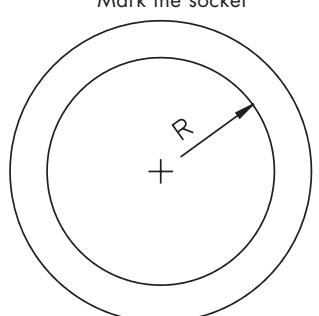
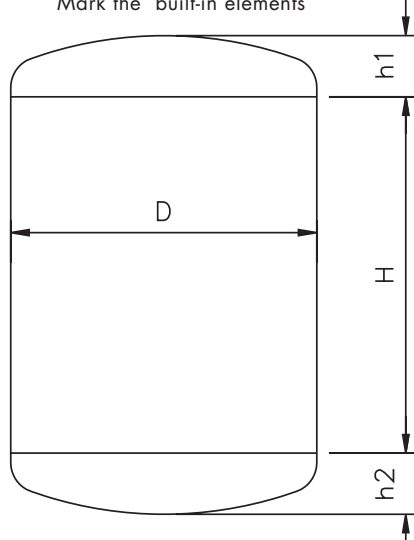
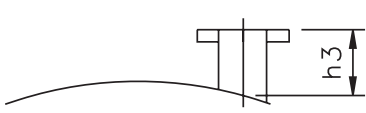
Example: 661 03 76**0A** 1330 TANKO® RB 30, 360° with balls made of 2.4602 / HC22

Example: 661 03 76**0B** 1330 TANKO® RB 30, 360° with balls made of 2.4610 / HC4

Wire locking pins - material certificate see page 13

Item no.	Set wire locking pins	to use for materials:	Dimensions	Price/EUR
664 00 00A2 0044	(4 pcs.) for TANKO® S20, RB30 Clipon	1.4435 (316L), 1.4404 (316L)	Ø 2,0 mm - length: 40 mm	on request
664 00 00A2 0064	(4 pcs.) for TANKO® S20, RB30 Clipon	1.4576	Ø 2,0 mm - length: 40 mm	on request
664 00 00A2 0094	(4 pcs.) for TANKO® S20, RB30 Clipon	2.4602 (HC22), 2.4610 (HC4)	Ø 2,0 mm - length: 40 mm	on request
664 00 00A3 0044	(4 pcs.) for TANKO® S30 Clipon	1.4435 (316L), 1.4404 (316L)	Ø 2,0 mm - length: 49 mm	on request
664 00 00A3 0064	(4 pcs.) for TANKO® S30 Clipon	1.4576	Ø 2,0 mm - length: 49 mm	on request
664 00 00A3 0094	(4 pcs.) for TANKO® S30 Clipon	2.4602 (HC22), 2.4610 (HC4)	Ø 2,0 mm - length: 49 mm	on request
664 00 00A5 0044	(4 pcs.) for TANKO® RB40 Clipon	1.4435 (316L), 1.4404 (316L)	Ø 2,4 mm - length: 49 mm	on request
664 00 00A5 0064	(4 pcs.) for TANKO® RB40 Clipon	1.4571 (316Ti), 1.4576	Ø 2,4 mm - length: 49 mm	on request
664 00 00A5 1064	(4 pcs.) for TANKO® RB40 Clipon	1.4571 (316Ti), 1.4576	Ø 2,4 mm - length: 59 mm	on request
664 00 00A5 0094	(4 pcs.) for TANKO® RB40 Clipon	2.4602 (HC22), 2.4610 (HC4)	Ø 2,4 mm - length: 49 mm	on request
664 00 00A6 0054	(4 pcs.) for TANKO® S40, RB64 Clipon	1.4571 (316Ti)	Ø 3,6 mm - length: 78 mm	on request
664 00 00A6 0074	(4 pcs.) for TANKO® S40, RB64 Clipon	2.4602 (HC22), 2.4610 (HC4)	Ø 3,6 mm - length: 78 mm	on request
664 00 00A7 0054	(4 pcs.) for TANKO® S50, RB90 Clipon	1.4571 (316Ti)	Ø 4,5 mm - length: 115 mm	on request

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Project Information Sheet		Project Nr.:	
Customer:		Handled by:	
Description:		Date:	
Vessel description:	Volume:		
	Dimensions:		
	Fitting position: vertical <input type="checkbox"/> horizontal <input type="checkbox"/> others.....		
Type of impurity:	Cleansing agent:	ATEX zone	
	Max. temperature of the cleansing agent: °C		
Consumption: m ³ /h	Max. ambient temperature: °C		
Estimated cleaning duration:	Working pressure: bar/ Cleansing agent		
Type of weld-on socket: 1) 2)	Dimensions:	Material:	
	Dimensions:	Material:	
Cleaning device: 1) 2)	Spray pattern:	Material:	
	Spray pattern:	Material:	
Current cleaning:			
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Top view Mark the socket</p>  </div> <div style="text-align: center;"> <p>Side view Mark the built-in elements</p>  </div> </div> <div style="margin-top: 20px;">  </div>			
Remarks:			
<p>This data sheet is intended for rating of AWH cleaning technology equipment. Each copy, transmission or any other utilization by third parties requires the written approval by AWH.</p>			

Vessel geometry and environment:

1.01 Size: _____ (in m)

1.02 Dimensions: _____ (width x height x depth)

1.03 Utilized height: (fill up quantity...) _____ (in m)

1.04 Installations: (agitators, funnels...)

1.05 Nozzles for measurement techniques or others:

1.06 Please attach drawings or drafts to your questionnaire or use the AWH project information sheet

1.07 ATEX approval required? Yes No

1.08 Which zones?

1.09 Utilization of the vessel: (tank, bottler...)

1.10 Storage of: (foods, adhesives, solvents...)

1.11 Process vessel: (mixing vessels, tank cleaning, reactor...)

1.12 Temperature of the process: _____ (°C)

1.13 Others:

Cleaning of the vessel

2.01 Point in time of cleaning:

2.02 Directly after process? Yes No

2.03 How often?

2.04 What is your current cleansing agent? (lye, acid, water, alcohol...)

2.05 How are you currently cleaning?

2.06 brush Type of: _____

2.07 high-pressure cleaner Type of: _____

2.08 competitive device Type of: _____

2.09 What does not work?:

2.10 Available amount of cleansing agent: _____ (m³/h)

2.11 Available pressure for cleansing agent: _____ (bar)

2.12 Where is the pressure for the cleansing agent being measured?

2.13 Are several cleaning devices concurrently in use?

2.14 Does the pressure drop during operation of the cleaning device? Yes No

2.15 Duration of the cleaning process: (cyclic...)

2.16 Is a surge or jet cleaner required?

2.17 Washing/rinsing or blasting?

2.18 Are any modifications planned for the cleaning process?

2.19 Is the cleansing agent applied in circles?

(or lost cleaning)

2.20 Has the filter been installed in front of the cleaning device? Yes No

2.21 Does the cleansing agent require subsequent disposal? (hazardous waste ...)

Materials:

3.01 Material of the tank:

3.02 Material of the cleaning device:

1.4404 (316L)

1.4571 (316Ti)

1.4435 (316L)

Hasteloy (HC4 or HC 22)

3.03 3.1 Certificates required? Yes No

3.04 Surface quality:

3.05 Connection of the cleaning device:

Clipon

dimensions:

Thread

dimensions:

Orbital weld version

dimensions:

AWH is offering complete downpipe solutions, please attend to the downpipe questionnaire on page 20 for further enquire.

ATTENTION: Nominal width of the connection depends on the type of device!

Cleansing agent flow off:

4.01 Diameter and execution of the connection:

4.02 Extraction by suction with a pump Yes No

4.03 Free flow off Yes No

4.04 Settling residues in the vessel can be expected Yes No

Cleaning devices are to be hygienically installed into the tank.

This task starts with the outside wall of the tank.

Here, various solutions are available:

- Threaded connection acc. to DIN 11851 with weldon nozzle
- TriClamp with weldon nozzle
- Welding neck flange of various types with weldon nozzle
- DIN 11864- connection (clamp, threaded connection or flange) with weldon nozzle
- Block flange following the DIN 11864
- Block flange of the BioConnect – series

This listing is definitely not complete, yet it describes some technically reasonable possibilities.

Important advices on the design of the connecting pieces arise directly from the examination of the spray angle, spray shadow pattern and the available cleaning devices. The weldon nozzles should be adjusted to these determining factors. The most reasonable solution is a block flange application. The short construction of the block flanges reduces the rebound into the connecting flange, thus most suitable for avoiding the areas, which are difficult to clean.

For economical reasons most applications will be equipped with clamp, flange or threaded connections. Yet, an optimization

can also be achieved here. For this, reductions with a central or an excentrical design are applied.

Generally, sufficient rinsing or blasting conditions for the final cleaning process are achieved with an optimal design of the weldon nozzles, i.e. nozzle depth = nozzle diameter to Downpipe diameter.

One of the most important issues regarding the connection of the cleaning device is the connection of the cleaning device to the down pipe (piece of pipe within the vessel)

Implementations are:

- Welding points at the down pipe with manual or orbital welding seam
- Clipon connection
- Threaded connection

From the hygienic point of view the orbital welding seam is definitely the best solution. Problems with cleaning the downpipe are to be observed and require for a particularly long downpipe special solutions.

The threaded connector enables a flexible connection of the cleaning device, though it bears particular cleanliness risks especially at the thread. A pipe with a male thread is bound to result in a "cup formation" at the transition of the thread to the cleaning device.

The weldon adapter depicted in the figure is a good solution to this problem in combination with a clean weld seam. The horizontal orientation of the gap between the thread and the cleaning device prevents a deposit of effluent cleansing agent. Hence it can flow off entirely over this edge. Various designs for the available combinations of pipe diameters and cleaning devices are possible. The material grades 1.4404, 1.4571, 1.4435 and, if necessary, also various Hastelloy variants can be selected.

TANKO® AN weldon adapter



Hygienic Installation of cleaning devices!

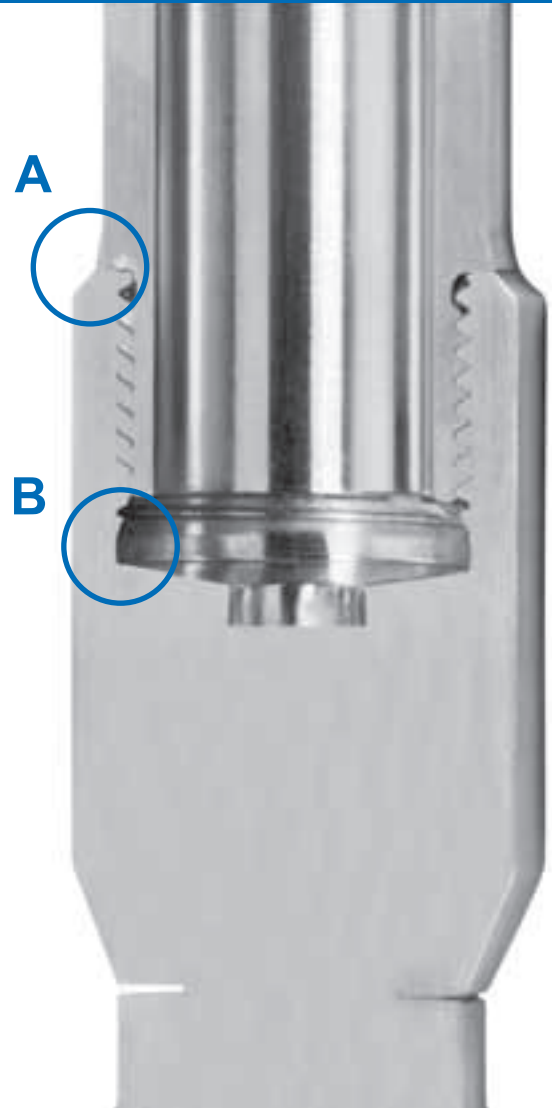
In combination with the given vessel connection variants, a clean general solution has been developed for the broad range of cleaning devices. Hence, contaminations at the connecting points of the cleaning devices can easily be reduced. Even in case of modification of the downpipe geometry (immersion depths ...), the optimization of the cleaning processes is trouble-free.

Standard – Male Thread - Installation



A, B Problem area for self-cleaning

AWH – Hygienic – Solution



A Droplet lip
B Turbulence zone of self-cleaning

Down pipe systems for tank cleaning CIP

1 cleaning device (e.g. TANKO®):

TANKO® S	10 <input type="checkbox"/>	20 <input type="checkbox"/>	30 <input type="checkbox"/>	40 <input type="checkbox"/>	50 <input type="checkbox"/>
TANKO® RB	30 <input type="checkbox"/>	40 <input type="checkbox"/>	64 <input type="checkbox"/>	90 <input type="checkbox"/>	
TANKO® JM100	<input type="checkbox"/>				
TANKO® JM500	<input type="checkbox"/>				
TANKO® JM800	<input type="checkbox"/>				
static sprayball	24 <input type="checkbox"/>	30 <input type="checkbox"/>	40 <input type="checkbox"/>	64 <input type="checkbox"/>	90 <input type="checkbox"/>

2 weld on nipple, if (1) is thread:

1/8" <input type="checkbox"/>	3/4" <input type="checkbox"/>	
1/4" <input type="checkbox"/>	1" <input type="checkbox"/>	BSP <input type="checkbox"/>
3/8" <input type="checkbox"/>	1 1/2" <input type="checkbox"/>	NPSM <input type="checkbox"/>
1/2" <input type="checkbox"/>		
metric thread M5 <input type="checkbox"/>		

3 pipe:

DN <input type="text"/>	length A <input type="text"/>
	length B <input type="text"/>
DIN 11866 series A (DIN) <input type="checkbox"/>	H3 <input checked="" type="checkbox"/>
DIN 11866 series B (ISO) <input type="checkbox"/>	H3 <input checked="" type="checkbox"/>
DIN 11866 series C (ASME) <input type="checkbox"/>	H3 <input checked="" type="checkbox"/>
DIN 11850 series 1 <input type="checkbox"/>	
DIN 11850 series 2 <input type="checkbox"/>	

4 process connection:

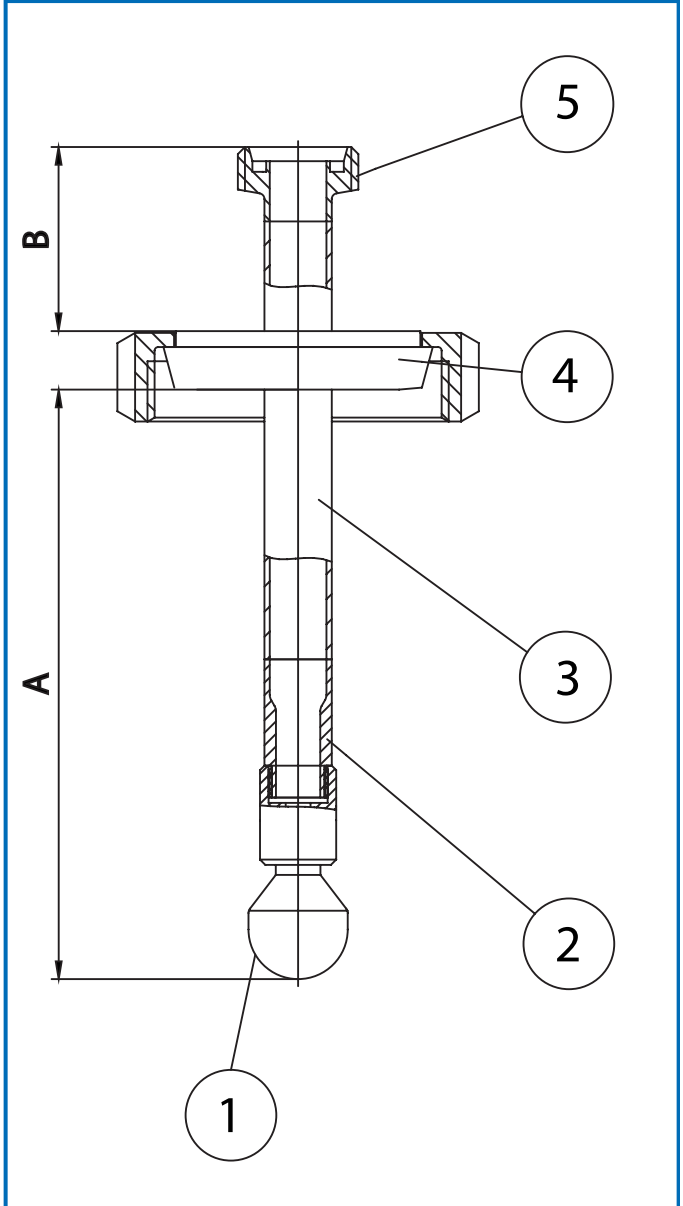
nominal pipe diameter <input type="text"/>	
ISO flange <input type="checkbox"/>	nominal pressure <input type="text"/> (e.g. 10 bar)
DIN 11851 liner <input type="checkbox"/>	
DIN 11864 part 1 liner <input type="checkbox"/>	
DIN 11864 part 2 Form A <input type="checkbox"/>	slot flange <input type="checkbox"/> collar flange <input type="checkbox"/>
DIN 11864 part 3 Form A <input type="checkbox"/>	slot clamp nozzle <input type="checkbox"/> collar clamp nozzle <input type="checkbox"/>

5 medium connection:

nominal pipe diameter <input type="text"/>	
ISO flange <input type="checkbox"/>	nominal pressure <input type="text"/> (e.g. 10 bar)
DIN 11851 <input type="checkbox"/>	threaded neck (male) <input type="checkbox"/> liner <input type="checkbox"/>
DIN 11864 part1 Form A <input type="checkbox"/>	threaded neck (male) <input type="checkbox"/> collar nozzle <input type="checkbox"/>
DIN 11864 part 2 Form A <input type="checkbox"/>	slot flange <input type="checkbox"/> collar flange <input type="checkbox"/>
DIN 11864 part 3 Form A <input type="checkbox"/>	slot clamp nozzle <input type="checkbox"/> collar clamp nozzle <input type="checkbox"/>

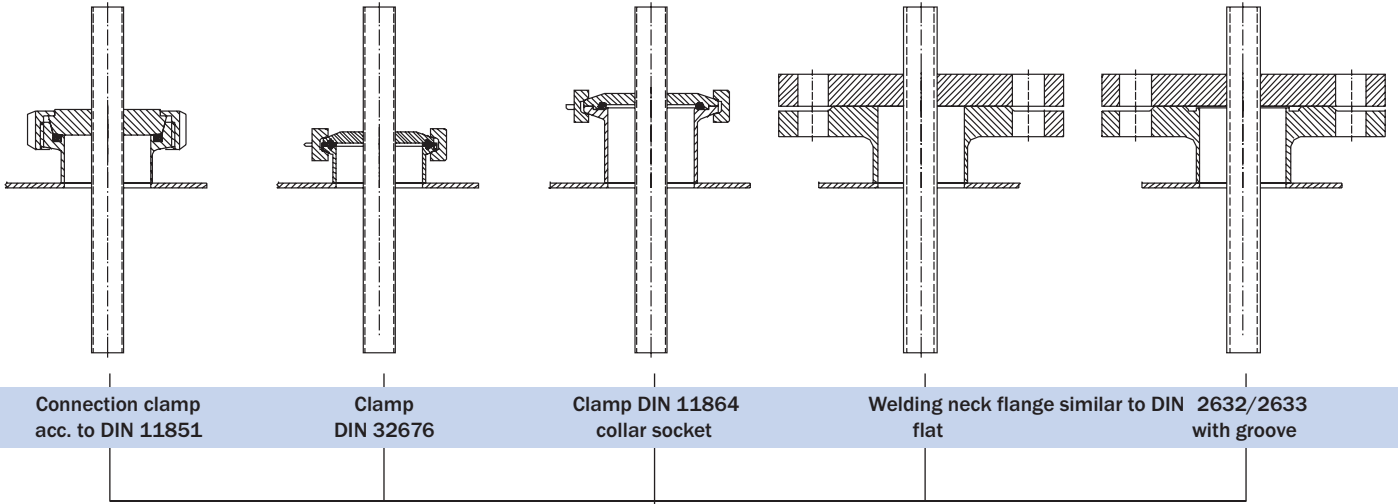
6 special features:

Downpipe

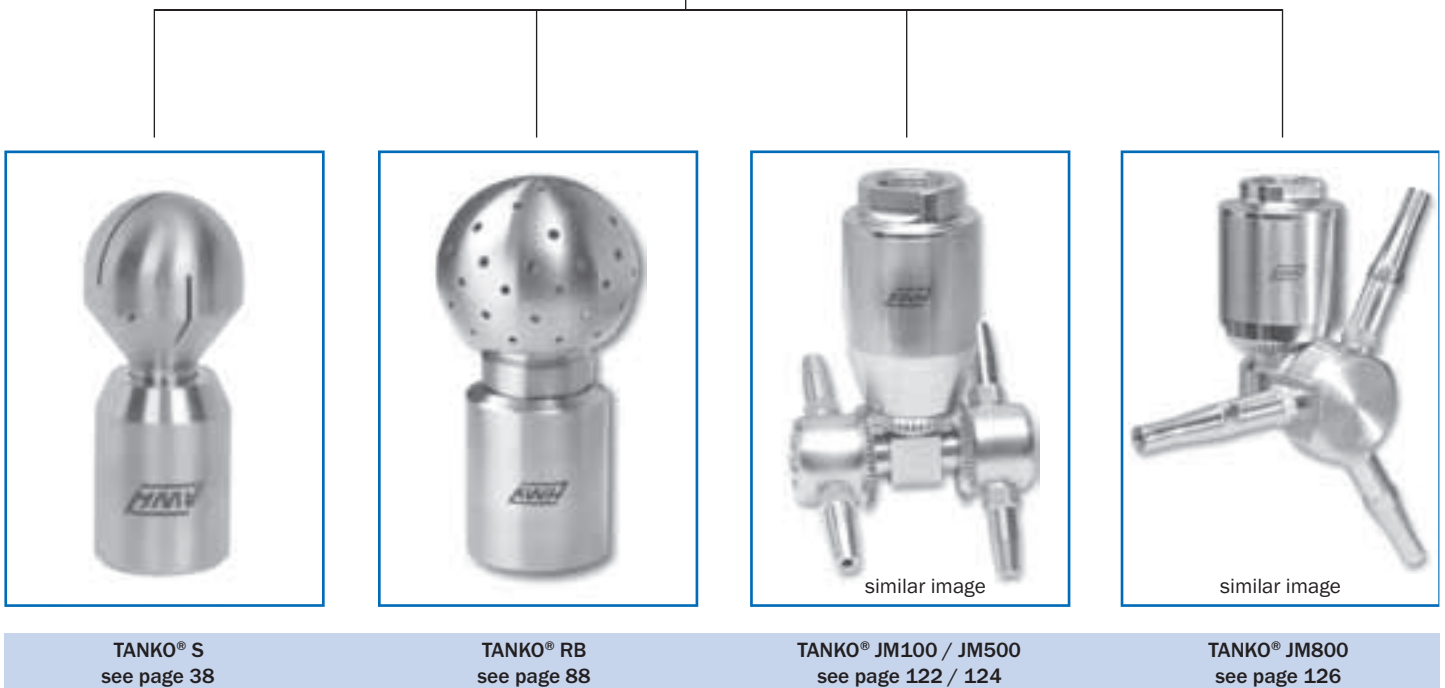


Installation options

Available in various designs at short notice



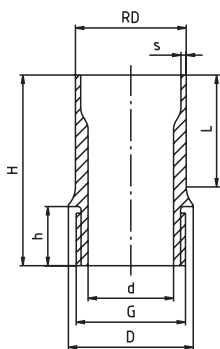
Weldon nipple see page 22-27



TANKO® AN weldon nipple (orbital)

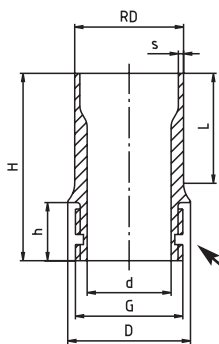


TANKO® AN weldon nipple (orbital)



DN	Standard DIN 11866	RD Ø mm	s mm	G BSP	D mm	d Ø mm	H mm	h mm	L min mm	g
6	series A (DIN)	8,0	1,0	M5	8,5	3	33,5	3,5	27	9
10	series A (DIN)	13,0	1,5	G 1/8"	14	6	36	6	27	22
8	series B (ISO)	13,5	1,6	G 1/8"	14	6	36	6	27	24
8	series C (ASME)	1/2"-12,7	1,65	G 1/8"	14	6	36	6	27	22
10	acc. to DIN 11850	12,0	1,5	G 1/8"	14	6	36	6	27	22
10	series A (DIN)	13,0	1,5	G 1/4"	15	9	36	6	27	19
8	series B (ISO)	13,5	1,6	G 1/4"	15	9	36	6	27	21
8	series C (ASME)	1/2"-12,7	1,65	G 1/4"	15	9	36	6	27	18
15	series A (DIN)	19,0	1,5	G 3/8"	19	12,5	39	9	27	37
10	series B (ISO)	17,2	1,6	G 3/8"	19	12,5	39	9	27	30
15	series B (ISO)	21,3	1,6	G 3/8"	19	12,5	39	9	27	47
15	series C (ASME)	3/4"-19,05	1,65	G 3/8"	19	12,5	39	9	27	38
15	acc. to DIN 11850	18,0	1,5	G 3/8"	19	12,5	39	9	27	33
15	series A (DIN)	19,0	1,5	G 1/2"	23	15	44	12	27	41
15	series B (ISO)	21,3	1,6	G 1/2"	23	15	44	12	27	53
15	series C (ASME)	3/4"-19,05	1,65	G 1/2"	23	15	44	12	27	42
25	series A (DIN)	29,0	1,5	G 3/4"	30	21	55	15	35	103
20	series B (ISO)	26,9	1,6	G 3/4"	30	21	55	15	35	85
25	series B (ISO)	33,7	2,0	G 3/4"	30	21	55	15	34	152
20	series C (ASME)	1" - 25,4	1,65	G 3/4"	30	21	55	15	35	73
25	acc. to DIN 11850	28,0	1,5	G 3/4"	30	21	55	15	35	103
32	series A (DIN)	35,0	1,5	G 1"	38	26	58	18	34	155
25	series B (ISO)	33,7	2,0	G 1"	38	26	58	18	34	148
32	series C (ASME)	1 1/2"-38,1	1,65	G 1"	38	26	58	18	34	189
40	series A (DIN)	41,0	1,5	G 1 1/2"	52	38	60	20	28	183
50	series A (DIN)	53,0	1,5	G 1 1/2"	52	41	60	20	35	277
40	series B (ISO)	48,3	2,0	G 1 1/2"	52	41	60	20	35	215
40	series C (ASME)	2" - 50,8	1,65	G 1 1/2"	52	41	60	20	35	250
50	acc. to DIN 11850	52,0	1,5	G 1 1/2"	52	41	60	20	35	250

TANKO® ANV weldon nipple (orbital)



Slot for elastomer ring
(optionally EPDM or VITON,
4 rings enclosed in the shipment)

The weldon nipple TANKO® ANV is an advancement of the TANKO® AN type. The vibration-protection ring provides a frictional resistance effect within the thread area, which induces an additional resistance that counters the self-loosening behavior of the cleaning device due to vibrations.

Instructions for Use:

In order to avoid damaging the vibration protection ring, this component may only be mounted after the weld-on nipple has been welded on. The vibration protection ring has to be exchanged after every device replacement (one-way system).

The new weldon nipple TANKO® ANV can be delivered in various combinations with the vibration protection ring.

TANKO® AN weldon nipple (orbital) with BSP thread

1.4404 (316L)		1.4571 (316Ti)		1.4435 (316L)		
DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
6	on request	664 01 3801 0620	on request	664 01 3801 0650	on request	664 01 3801 0630
10	on request	664 01 4001 0620	on request	664 01 4001 0650	on request	664 01 4001 0630
8	on request	664 01 7501 0620	on request	664 01 7501 0650	on request	664 01 7501 0630
8	on request	664 01 8901 0620	on request	664 01 8901 0650	on request	664 01 8901 0630
10	on request	664 01 0174 0620	on request	664 01 0174 0650	on request	664 01 0174 0630
10	on request	664 01 7540 0620	on request	664 01 7540 0650	on request	664 01 7540 0630
8	on request	664 01 7575 0620	on request	664 01 7575 0650	on request	664 01 7575 0630
8	on request	664 01 7589 0620	on request	664 01 7589 0650	on request	664 01 7589 0630
15	on request	664 01 4101 0620	on request	664 01 4101 0650	on request	664 01 4101 0630
10	on request	664 01 7601 0620	on request	664 01 7601 0650	on request	664 01 7601 0630
15	on request	664 01 7701 0620	on request	664 01 7701 0650	on request	664 01 7701 0630
15	on request	664 01 9001 0620	on request	664 01 9001 0650	on request	664 01 9001 0630
15	on request	664 01 0376 0620	on request	664 01 0376 0650	on request	664 01 0376 0630
15	on request	664 01 4102 0620	on request	664 01 4102 0650	on request	664 01 4102 0630
15	on request	664 01 7702 0620	on request	664 01 7702 0650	on request	664 01 7702 0630
15	on request	664 01 9002 0620	on request	664 01 9002 0650	on request	664 01 9002 0630
25	on request	664 01 4301 0620	on request	664 01 4301 0650	on request	664 01 4301 0630
20	on request	664 01 7801 0620	on request	664 01 7801 0650	on request	664 01 7878 0630
25	on request	664 01 7902 0620	on request	664 01 7902 0650		
20	on request	664 01 9101 0620	on request	664 01 9101 0650		
25	on request	664 01 0578 0620	on request	664 01 0578 0650		
32	on request	664 01 4401 0620	on request	664 01 4401 0650		
25	on request	664 01 7901 0620	on request	664 01 7901 0650		
32	on request	664 01 9201 0620	on request	664 01 9201 0650		
40	on request	664 01 4081 0620	on request	664 01 4081 0650		
50	on request	664 01 4601 0620	on request	664 01 4601 0650		
40	on request	664 01 8101 0620	on request	664 01 8101 0650		
40	on request	664 01 9301 0620	on request	664 01 9301 0650		
50	on request	664 01 0881 0620	on request	664 01 0881 0650		

To place an order please take the Item no. of TANKO® AN from the table and change its 4th number against "N" and its 13th number against "E" for EPDM or "V" for VITON to indicate the weldon nipple with nut and vibration protection ring.

EPDM example: 664 **N**1 4301 062**E** = TANKO® AN (see table above) with vibration protection ring EPDM

VITON example: 664 **N**1 4301 062**V** = TANKO® AN (see table above) with vibration protection ring VITON

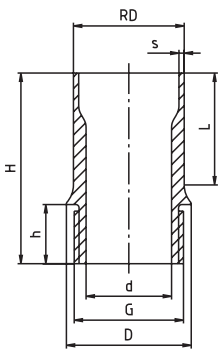
Additional charges on request!

TANKO® AN weldon nipple (orbital)

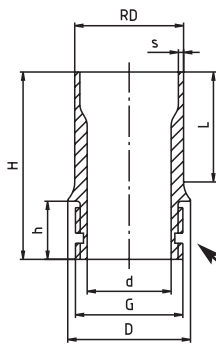


DN	Standard DIN 11866	RD Ø mm	s mm	G BSP	D mm	d Ø mm	H mm	h mm	L min mm	g
6	series A (DIN)	8,0	1,0	M5	8,5	3	33,5	3,5	27	9
10	series A (DIN)	13,0	1,5	G 1/8"	14	6	36	6	27	22
8	series B (ISO)	13,5	1,6	G 1/8"	14	6	36	6	27	24
8	series C (ASME)	1/2"-12,7	1,65	G 1/8"	14	6	36	6	27	22
10	series A (DIN)	13,0	1,5	G 1/4"	15	9	36	6	27	19
8	series B (ISO)	13,5	1,6	G 1/4"	15	9	36	6	27	21
8	series C (ASME)	1/2"-12,7	1,65	G 1/4"	15	9	36	6	27	18
15	series A (DIN)	19,0	1,5	G 3/8"	19	12,5	39	9	27	37
10	series B (ISO)	17,2	1,6	G 3/8"	19	12,5	39	9	27	30
15	series B (ISO)	21,3	1,6	G 3/8"	19	12,5	39	9	27	47
15	series C (ASME)	3/4"-19,05	1,65	G 3/8"	19	12,5	39	9	27	38
15	acc. to DIN 11850	18,0	1,5	G 3/8"	19	12,5	39	9	27	33
15	series A (DIN)	19,0	1,5	G 1/2"	23	15	44	12	27	41
15	series B (ISO)	21,3	1,6	G 1/2"	23	15	44	12	27	53
15	series C (ASME)	3/4"-19,05	1,65	G 1/2"	23	15	44	12	27	42
25	series A (DIN)	29,0	1,5	G 3/4"	30	21	55	15	35	103
20	series B (ISO)	26,9	1,6	G 3/4"	30	21	55	15	35	85
25	series B (ISO)	33,7	2,0	G 3/4"	30	21	55	15	34	152
20	series C (ASME)	1" - 25,4	1,65	G 3/4"	30	21	55	15	35	73
32	series A (DIN)	35,0	1,5	G 1"	38	26	58	18	34	155
25	series B (ISO)	33,7	2,0	G 1"	38	26	58	18	34	148
32	series C (ASME)	1 1/2"-38,1	1,65	G 1"	38	26	58	18	34	189
50	series A (DIN)	53,0	1,5	G 1 1/2"	52	41	60	20	35	277
40	series B (ISO)	48,3	2,0	G 1 1/2"	52	41	60	20	35	215
40	series C (ASME)	2" - 50,8	1,65	G 1 1/2"	52	41	60	20	35	250

TANKO® AN weldon nipple (orbital)



TANKO® ANV weldon nipple (orbital)



Slot for elastomer ring
(optionally EPDM or VITON,
4 rings enclosed in the shipment)

The weldon nipple TANKO® ANV is an advancement of the TANKO® AN type. The vibration-protection ring provides a frictional resistance effect within the thread area, which induces an additional resistance that counters the self-loosening behavior of the cleaning device due to vibrations.

Instructions for Use:

In order to avoid damaging the vibration protection ring, this component may only be mounted after the weld-on nipple has been welded on. The vibration protection ring has to be exchanged after every device replacement (one-way system).

The new weldon nipple TANKO® ANV can be delivered in various combinations with the vibration protection ring.

TANKO® AN weldon nipple (orbital) with BSP thread

2.4602 (HC22)		2.4610 (HC4)			
DN	Price/EUR	Item no.	Price/EUR	Item no.	
6	on request	664 01 3801 0680	on request	664 01 3801 0670	
10	on request	664 01 4001 0680	on request	664 01 4001 0670	
8	on request	664 01 7501 0680	on request	664 01 7501 0670	
8	on request	664 01 8901 0680	on request	664 01 8901 0670	
10	on request	664 01 7540 0680	on request	664 01 7540 0670	
8	on request	664 01 7575 0680	on request	664 01 7575 0670	
8	on request	664 01 7589 0680	on request	664 01 7589 0670	
15	on request	664 01 4101 0680	on request	664 01 4101 0670	
10	on request	664 01 7601 0680	on request	664 01 7601 0670	
15	on request	664 01 7701 0680	on request	664 01 7701 0670	
15	on request	664 01 9001 0680	on request	664 01 9001 0670	
15	on request	664 01 0376 0680	on request	664 01 0376 0670	
15	on request	664 01 4102 0680	on request	664 01 4102 0670	
15	on request	664 01 7702 0680	on request	664 01 7702 0670	
15	on request	664 01 9002 0680	on request	664 01 9002 0670	
25	on request	664 01 4301 0680	on request	664 01 4301 0670	
20	on request	664 01 7801 0680	on request	664 01 7801 0670	
25	on request	664 01 7902 0680	on request	664 01 7902 0670	
20	on request	664 01 9101 0680	on request	664 01 9101 0670	
32	on request	664 01 4401 0680	on request	664 01 4401 0670	
25	on request	664 01 7901 0680	on request	664 01 7901 0670	
32	on request	664 01 9201 0680	on request	664 01 9201 0670	
50	on request	664 01 4601 0680	on request	664 01 4601 0670	
40	on request	664 01 8101 0680	on request	664 01 8101 0670	
40	on request	664 01 9301 0680	on request	664 01 9301 0670	

To place an order please take the Item no. of TANKO® AN from the table and change its 4th number against "N" and its 13th number against "E" for EPDM or "V" for VITON to indicate the weldon nipple with nut and vibration protection ring.

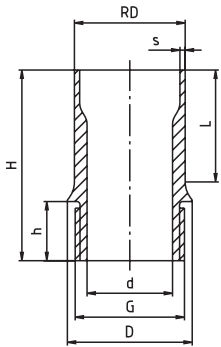
EPDM example: 664 N1 4301 068E = TANKO® AN (see table above) with vibration protection ring EPDM
 VITON example: 664 N1 4301 068V = TANKO® AN (see table above) with vibration protection ring VITON

Additional charges on request!

TANKO® AN weldon nipple (orbital)



TANKO® AN weldon nipple (orbital)



DN	Standard DIN 11866	RD Ø mm	s mm	G NPSM	D mm	d Ø mm	H mm	h mm	L min mm	g
6	series B (ISO)	13,5	1,6	1/8"	14	6	36	6	27	24
6	series C (ASME)	1/2"-12,7	1,65	1/8"	14	6	36	6	27	22
10	series B (ISO)	13,5	1,6	1/4"	15	9	36	6	27	21
10	series C (ASME)	1/2"-12,7	1,65	1/4"	15	9	36	6	27	18
10	series B (ISO)	17,2	1,6	3/8"	19	12,5	39	9	27	30
10	series C (ASME)	3/4"-19,05	1,65	3/8"	19	12,5	39	9	27	38
15	series B (ISO)	21,3	1,6	1/2"	23	15	44	12	27	53
15	series C (ASME)	3/4"-19,05	1,65	1/2"	23	15	44	12	27	42
20	series B (ISO)	26,9	1,6	3/4"	30	21	55	15	35	85
20	series C (ASME)	1"-25,4	1,65	3/4"	30	21	55	15	35	73
25	series B (ISO)	33,7	2,0	1"	38	26	58	18	34	148
32	series C (ASME)	1 1/2"-38,1	1,65	1"	38	26	58	18	34	189
40	series B (ISO)	48,3	2,0	1 1/2"	52	41	60	20	35	215
40	series C (ASME)	2"-50,8	1,65	1 1/2"	52	41	60	20	35	249

DN	Standard DIN 11866	RD Ø mm	s mm	G NPSM	D mm	d Ø mm	H mm	h mm	L min mm	g
6	series B (ISO)	13,5	1,6	1/8"	14	6	36	6	27	24
6	series C (ASME)	1/2"-12,7	1,65	1/8"	14	6	36	6	27	22
10	series B (ISO)	13,5	1,6	1/4"	15	9	36	6	27	21
10	series C (ASME)	1/2"-12,7	1,65	1/4"	15	9	36	6	27	18
10	series B (ISO)	17,2	1,6	3/8"	19	12,5	39	9	27	30
10	series C (ASME)	3/4"-19,05	1,65	3/8"	19	12,5	39	9	27	38
15	series B (ISO)	21,3	1,6	1/2"	23	15	44	12	27	53
15	series C (ASME)	3/4"-19,05	1,65	1/2"	23	15	44	12	27	42
20	series B (ISO)	26,9	1,6	3/4"	30	21	55	15	35	85
20	series C (ASME)	1"-25,4	1,65	3/4"	30	21	55	15	35	73
25	series B (ISO)	33,7	2,0	1"	38	26	58	18	34	148
32	series C (ASME)	1 1/2"-38,1	1,65	1"	38	26	58	18	34	189
40	series B (ISO)	48,3	2,0	1 1/2"	52	41	60	20	35	215
40	series C (ASME)	2"-50,8	1,65	1 1/2"	52	41	60	20	35	249

! Combinable with TANKO® S / -RB connection: NPS-thread !

TANKO® AN weldon nipple (orbital) with NPSM thread

1.4404 (316L)		1.4571 (316Ti)		1.4435 (316L)		
DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
6			on request	664 01 7574 0M50	on request	664 01 7574 0M30
6			on request	664 01 8974 0M50	on request	664 01 8974 0M30
10			on request	664 01 7575 0M50	on request	664 01 7575 0M30
10			on request	664 01 8975 0M50	on request	664 01 8975 0M30
10			on request	664 01 7676 0M50	on request	664 01 7676 0M30
10			on request	664 01 9076 0M50	on request	664 01 9076 0M30
15			on request	664 01 7777 0M50	on request	664 01 7777 0M30
15			on request	664 01 9077 0M50	on request	664 01 9077 0M30
20			on request	664 01 7878 0M50	on request	664 01 7878 0M30
20			on request	664 01 9178 0M50	on request	664 01 9178 0M30
25			on request	664 01 7979 0M50	on request	664 01 7979 0M30
32			on request	664 01 9279 0M50	on request	664 01 9279 0M30
40			on request	664 01 8181 0M50	on request	664 01 8181 0M30
40			on request	664 01 9381 0M50	on request	664 01 9381 0M30

TANKO® AN weldon nipple (orbital) with NPSM thread

2.4602 (HC22)		2.4610 (HC4)			
DN	Price/EUR	Item no.	Price/EUR	Item no.	
6	on request	664 01 7574 0M80	on request	664 01 7574 0M70	
6	on request	664 01 8974 0M80	on request	664 01 8974 0M70	
10	on request	664 01 7575 0M80	on request	664 01 7575 0M70	
10	on request	664 01 8975 0M80	on request	664 01 8975 0M70	
10	on request	664 01 7676 0M80	on request	664 01 7676 0M70	
10	on request	664 01 9076 0M80	on request	664 01 9076 0M70	
15	on request	664 01 7777 0M80	on request	664 01 7777 0M70	
15	on request	664 01 9077 0M80	on request	664 01 9077 0M70	
20	on request	664 01 7878 0M80	on request	664 01 7878 0M70	
20	on request	664 01 9178 0M80	on request	664 01 9178 0M70	
25	on request	664 01 7979 0M80	on request	664 01 7979 0M70	
32	on request	664 01 9279 0M80	on request	664 01 9279 0M70	
40	on request	664 01 8181 0M80	on request	664 01 8181 0M70	
40	on request	664 01 9381 0M80	on request	664 01 9381 0M70	

Pipe tongs with plastic jaws

For installation of thread versions of

- TANKO® S30, S40

- TANKO® RB30, RB40

pipe tongs with plastic jaws item no. 07509



Item No.		Price/EUR
07509		on request
07510	substitute plastic jaws	on request

Particular for installation of thread versions of

- TANKO® S10, S20

pipe tongs with plastic jaws item no. 07506



Item No.		Price/EUR
07506		on request

Cleaning devices for tanks or vessels are being applied since several decades. The achievable cleaning results could be considerably improved by developing new devices. Thanks to this development work, significant potential savings, best cleaning results and product safety emerge from today's economical surge cleaners (TANKO® S).

Reliable cleaning results thanks to enhanced clearing power

For economical reasons, surge cleaners often replace expensive jet cleaners. Meanwhile, this step is feasible for many applications. The reason for this is the improved cleaning power, i.e. the higher impact on the vessel's wall of modern surge cleaners. The current manufacturing technologies, such as orbital welding and high-precision CNC metal working centers offer various possibilities for optimizations. Here, the spray nozzle width and the quality of manufacture of the "spray nozzles slits" play a particular role. To put it in a nutshell: the broader and more accurate the construction of the slit, the higher the cleaning power. Attention should be paid to the achievable large droplet diameter on the vessel's wall. This is larger for large slit widths than for smaller slit widths, thus producing a higher impact. The drop has virtually a round shape, when impinging on the vessel's wall. The impingement angle of the drop onto the vessel's wall (which depends on the rotation speed of the TANKO® S head) plays a minor role. Basically, only the droplet size and its impact speed are the relevant parameters for the cleaning power. In order to perform an appropriate radius of action, apart from the droplet size, various constructive aspects are to be considered. Thanks to modern constructions of spray heads (design of the spray slits) and CNC-controlled processing centers, the spray heads have become 100% fabricable with repetitious accuracy. So-called "hand slit procedures" belong to the past. Cleaning



processes that have been optimized once after exchanging the spray heads do not require any readjustment.

Hygienic and safe construction

Older constructions apply threaded constructions between spray head and the base (area of ball bearing). According to the construction several weak points can be found. On the one hand the spray head can turn off of the base plate. This happens only rarely, but the rotation of the spray head creates loosening effects at the thread in connection with the vibrations of the vessel (due to the built-in agitator). The thread can be secured by means of a locking pin. However, the quality of the locking pin (material

and construction) and the installation of the pin bear significant responsibility for the hygienic properties of the entire surge cleaner. Therefore, the locking pin is not a really good solution.

With the new construction AWH waives a thread.

For the "weld-on version" the customer receives a thread-free device. The spray head is firmly attached to the base plate, which is welded to the downpipe as a whole. This construction has increased the hygienic optimization of the TANKO® S to a maximum degree. For best assembly into the vessel, the TANKO® S is optimally supplemented by the AWH downpipe concept.

Connection types

Clipon



Weldon



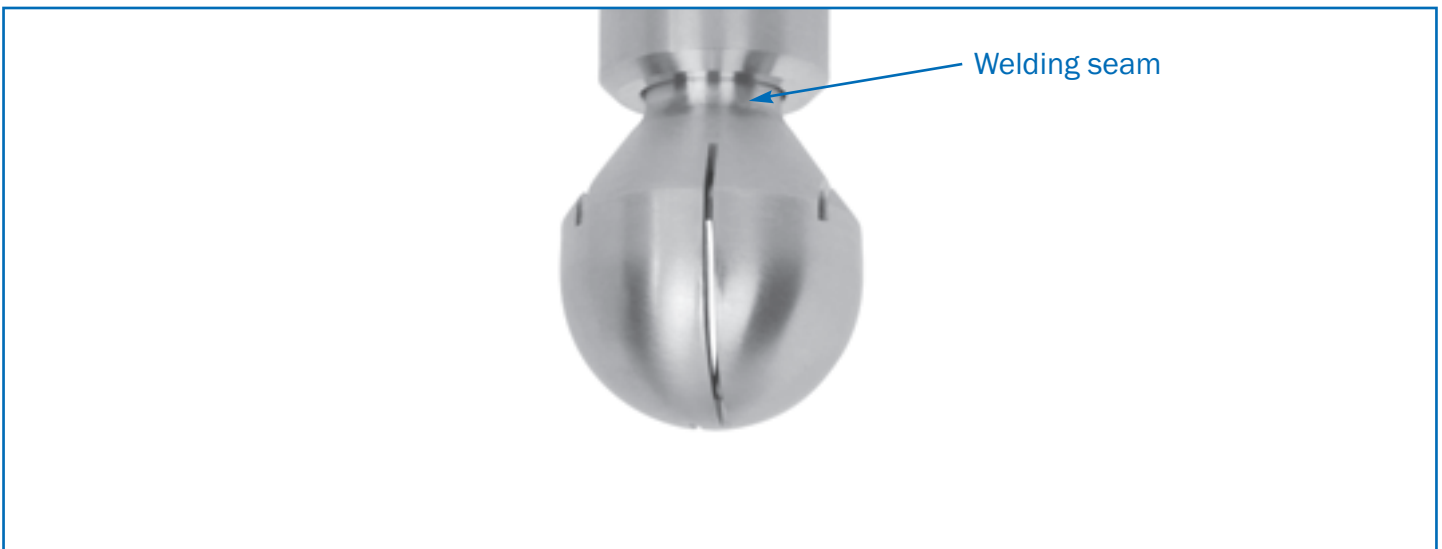
Thread



Spring cotter



Welding seam

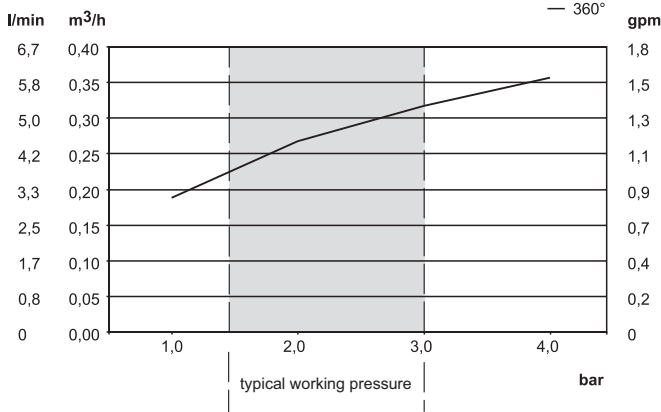


Consumption tables TANKO® S

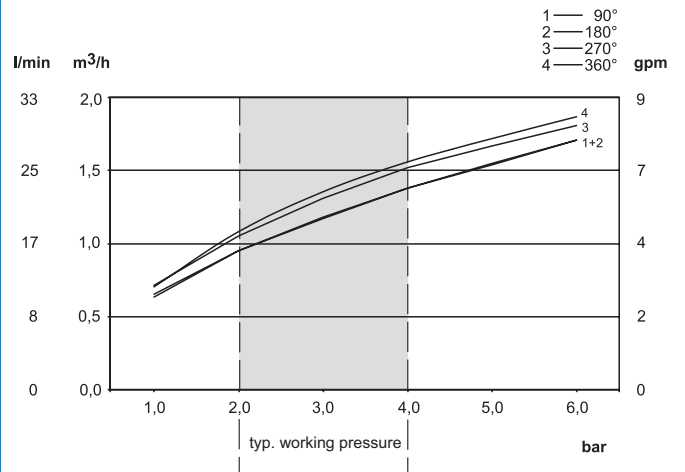
Measuring temperature: appr. 25 - 30 °C

Measuring medium: water

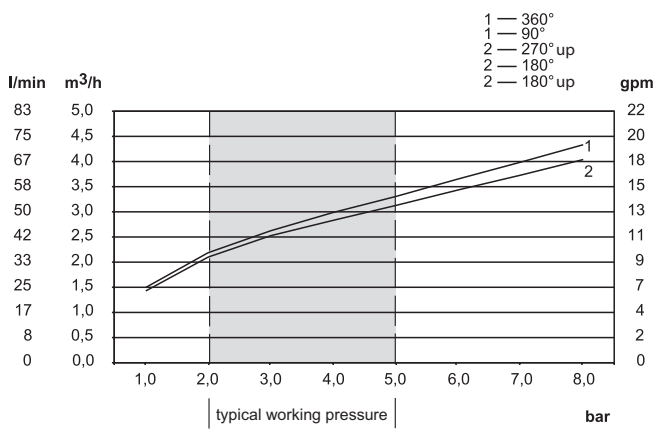
TANKO® S10



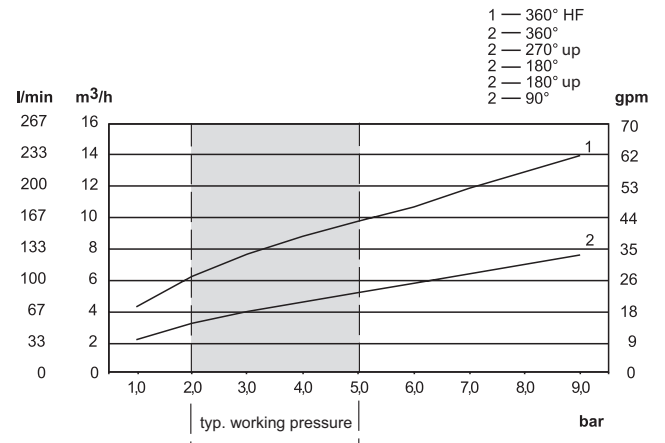
TANKO® S20



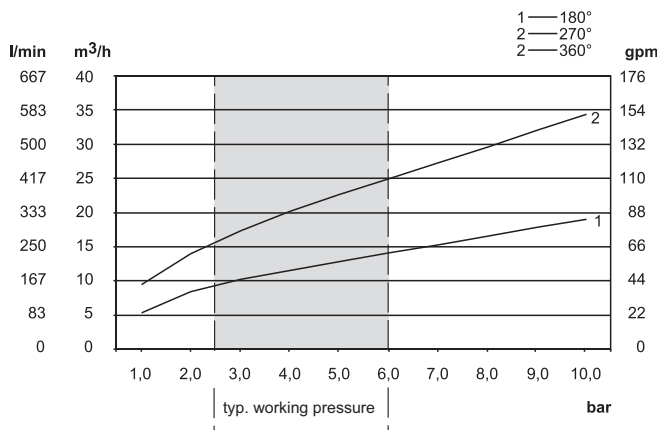
TANKO® S30



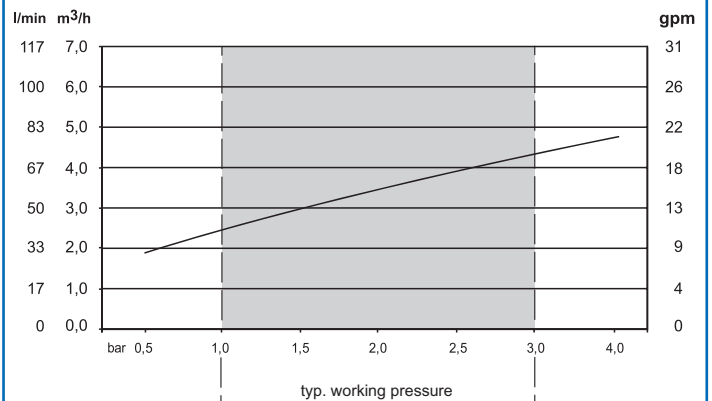
TANKO® S40



TANKO® S50



TANKO® SF



Technical details

TANKO® SF

Material: 1.4435 (316L), EPDM
rotating body: PEEK

Connections: clipon, orbital weldon-connection acc. DIN 11866

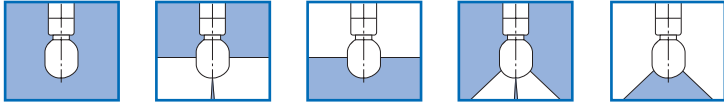
Working pressure: 1 - 3 bar

maximum working temperature: 95° C

sterilisation temperature: 121° C

maximum ambient temperature: 150° C

TANKO® S, RB



360° 180° upwards 180° downwards 270° upwards 90° downwards

Material

	TANKO-S10	TANKO-S20	TANKO-S30	TANKO-S40	TANKO-S50	TANKO-RB30	TANKO-RB40	TANKO-RB64	TANKO-RB90
Material base body									
1.4571 (316Ti)	x	x	x	x	x	x	x	x	x
1.4435 (316L)	x	x	x	x	x	x	x	x	-
1.4404 (316L)	-	-	-	x	x	-	-	-	-
Material bearing balls standard									
1.4401 (316)	x	x	x	x	x	x	x	x	x
Material bearing balls option (see page 14)									
2.4602 (HC22)	-	x	x	x	x	x	x	x	x
2.4610 (HC4)	x	x	x	x	x	x	x	x	x
Material base body (bearing balls: same material like base body)									
2.4602 (HC22)	x	x	x	x	x	x	x	-	-
2.4610 (HC4)	x	x	x	x	x	-	-	-	-

Connections: clipon, thread, orbital weldon-connection acc. DIN 11866

Working pressure: depends on the spray head size, see consumption tables

Bearing: spray ball supported in double bearings

maximum working temperature: 230° C

maximum ambient temperature: 250° C

Not for ATEX-Versions!

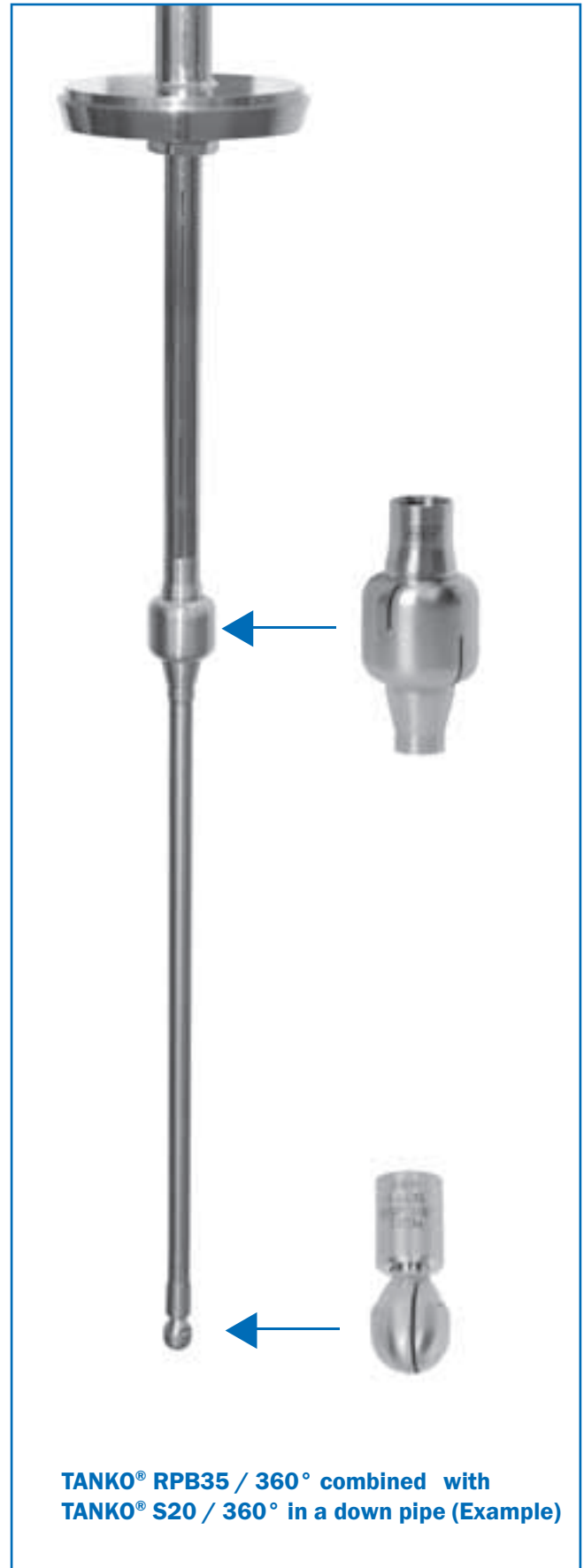
That's how to reduce spray shadows!

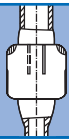
One connection nozzle and two surge sources (TANKO® S) that are installed within one down pipe in different heights reduce the spray shadows to a minimum.

The TANKO® RPB35 is available as PEEK-slide bearing and stainless steel ball bearing (1.4401) version with a spray angle of 360°.

The base plate and the spray ball are made of the indicated material such as 1.4435 for instance. Supplementing the standard 360° spray angle model, a RPB version with down pipe rinsing for nozzle and down pipe cleaning is also available.

Further spray angles and product models are being developed or involved in long-term tests and available in short time.

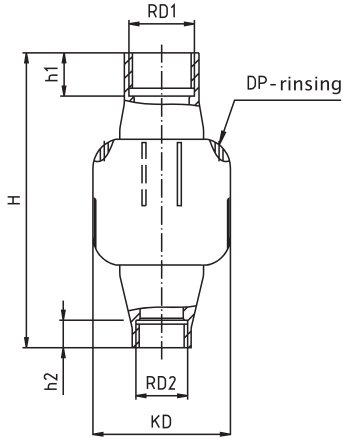




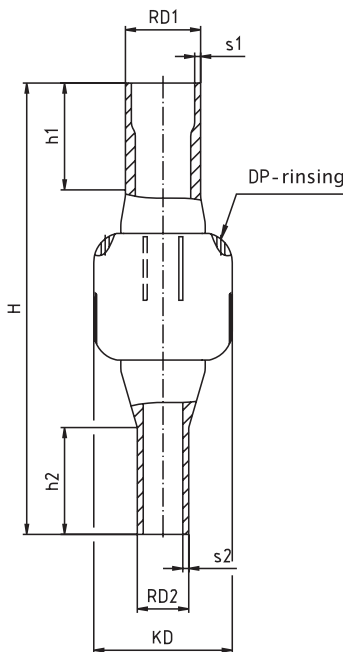
TANKO® RPB35 (Rotating Pipe Ball)

TANKO® RPB35 (Rotating Pipe Ball) 360°

Thread



Weldon



Conne- ction	Standard DIN 11866	Type of bearing	KD Ø mm	RD1	s1 mm	h1 mm	RD2	s2 mm	h2 mm	DP- rinsing	H mm	9
Thread	BSP	BB	35	3/8"	—	11	1/4"	—	7	without	75	140
Thread	BSP	BB	35	3/8"	—	11	1/4"	—	7	with	75	140
Thread	BSP	PB	35	3/8"	—	11	1/4"	—	7	without	75	140
Thread	BSP	PB	35	3/8"	—	11	1/4"	—	7	with	75	140
Thread	NPT	BB	35	3/8"	—	11	1/4"	—	7	without	75	140
Thread	NPT	BB	35	3/8"	—	11	1/4"	—	7	with	75	140
Thread	NPT	PB	35	3/8"	—	11	1/4"	—	7	without	75	140
Thread	NPT	PB	35	3/8"	—	11	1/4"	—	7	with	75	140
Weldon	series A (DIN)	BB	35	19,0	1,5	27	13	1,5	27	without	114	151
Weldon	series A (DIN)	BB	35	19,0	1,5	27	13	1,5	27	with	114	151
Weldon	series A (DIN)	PB	35	19,0	1,5	27	13	1,5	27	without	114	151
Weldon	series A (DIN)	PB	35	19,0	1,5	27	13	1,5	27	with	114	151
Weldon	series B (ISO)	BB	35	21,3	1,6	27	13,5	1,6	27	without	114	151
Weldon	series B (ISO)	BB	35	21,3	1,6	27	13,5	1,6	27	with	114	151
Weldon	series B (ISO)	PB	35	21,3	1,6	27	13,5	1,6	27	without	114	151
Weldon	series B (ISO)	PB	35	21,3	1,6	27	13,5	1,6	27	with	114	151
Weldon	series C (ASME)	BB	35	19,05	1,65	27	12,7	1,65	27	without	114	151
Weldon	series C (ASME)	BB	35	19,05	1,65	27	12,7	1,65	27	with	114	151
Weldon	series C (ASME)	PB	35	19,05	1,65	27	12,7	1,65	27	without	114	151
Weldon	series C (ASME)	PB	35	19,05	1,65	27	12,7	1,65	27	with	114	151

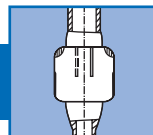
Conne- ction	Standard DIN 11866	Type of bearing	KD Ø mm	RD1	s1 mm	h1 mm	RD2	s2 mm	h2 mm	DP- rinsing	H mm	9
Thread	BSP	BB	35	3/8"	—	11	1/4"	—	7	without	75	140
Thread	BSP	BB	35	3/8"	—	11	1/4"	—	7	with	75	140
Thread	BSP	PB	35	3/8"	—	11	1/4"	—	7	without	75	140
Thread	BSP	PB	35	3/8"	—	11	1/4"	—	7	with	75	140
Thread	NPT	BB	35	3/8"	—	11	1/4"	—	7	without	75	140
Thread	NPT	BB	35	3/8"	—	11	1/4"	—	7	with	75	140
Thread	NPT	PB	35	3/8"	—	11	1/4"	—	7	without	75	140
Thread	NPT	PB	35	3/8"	—	11	1/4"	—	7	with	75	140
Weldon	series A (DIN)	BB	35	19,0	1,5	27	13	1,5	27	without	114	151
Weldon	series A (DIN)	BB	35	19,0	1,5	27	13	1,5	27	with	114	151
Weldon	series A (DIN)	PB	35	19,0	1,5	27	13	1,5	27	without	114	151
Weldon	series A (DIN)	PB	35	19,0	1,5	27	13	1,5	27	with	114	151
Weldon	series B (ISO)	BB	35	21,3	1,6	27	13,5	1,6	27	without	114	151
Weldon	series B (ISO)	BB	35	21,3	1,6	27	13,5	1,6	27	with	114	151
Weldon	series B (ISO)	PB	35	21,3	1,6	27	13,5	1,6	27	without	114	151
Weldon	series B (ISO)	PB	35	21,3	1,6	27	13,5	1,6	27	with	114	151
Weldon	series C (ASME)	BB	35	19,05	1,65	27	12,7	1,65	27	without	114	151
Weldon	series C (ASME)	BB	35	19,05	1,65	27	12,7	1,65	27	with	114	151
Weldon	series C (ASME)	PB	35	19,05	1,65	27	12,7	1,65	27	without	114	151
Weldon	series C (ASME)	PB	35	19,05	1,65	27	12,7	1,65	27	with	114	151

RPB35 BB = ball bearing
Maximum working temperature: 140 °C

RPB35 PB = plain bearing
Maximum working temperature: 60 °C, higher upon request

DP-Rinsing = down pipe rinsing upwards

Operating pressure: typically 1 – 3 bar



TANKO® RPB35 (Rotating Pipe Ball) 360°

		1.4404 (316L)		1.4435 (316L)		1.4571 (316Ti)	
Connection	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.	
Thread	on request	667 11 1013 2300 20	on request	667 11 1013 2300 30	on request	667 11 1013 2300 50	
Thread	on request	667 11 1113 2300 20	on request	667 11 1113 2300 30	on request	667 11 1113 2300 50	
Thread	on request	667 11 1023 2300 20	on request	667 11 1023 2300 30	on request	667 11 1023 2300 50	
Thread	on request	667 11 1123 2300 20	on request	667 11 1123 2300 30	on request	667 11 1123 2300 50	
Thread	on request	667 11 1013 2400 20	on request	667 11 1013 2400 30	on request	667 11 1013 2400 50	
Thread	on request	667 11 1113 2400 20	on request	667 11 1113 2400 30	on request	667 11 1113 2400 50	
Thread	on request	667 11 1023 2400 20	on request	667 11 1023 2400 30	on request	667 11 1023 2400 50	
Thread	on request	667 11 1123 2400 20	on request	667 11 1123 2400 30	on request	667 11 1123 2400 50	
Weldon	on request	667 11 1016 6600 20	on request	667 11 1016 6600 30	on request	667 11 1016 6600 50	
Weldon	on request	667 11 1116 6600 20	on request	667 11 1116 6600 30	on request	667 11 1116 6600 50	
Weldon	on request	667 11 1026 6600 20	on request	667 11 1026 6600 30	on request	667 11 1026 6600 50	
Weldon	on request	667 11 1126 6600 20	on request	667 11 1126 6600 30	on request	667 11 1126 6600 50	
Weldon	on request	667 11 1017 7600 20	on request	667 11 1017 7600 30	on request	667 11 1017 7600 50	
Weldon	on request	667 11 1117 7600 20	on request	667 11 1117 7600 30	on request	667 11 1117 7600 50	
Weldon	on request	667 11 1027 7600 20	on request	667 11 1027 7600 30	on request	667 11 1027 7600 50	
Weldon	on request	667 11 1127 7600 20	on request	667 11 1127 7600 30	on request	667 11 1127 7600 50	
Weldon	on request	667 11 1018 8600 20	on request	667 11 1018 8600 30	on request	667 11 1018 8600 50	
Weldon	on request	667 11 1118 8600 20	on request	667 11 1118 8600 30	on request	667 11 1118 8600 50	
Weldon	on request	667 11 1028 8600 20	on request	667 11 1028 8600 30	on request	667 11 1028 8600 50	
Weldon	on request	667 11 1128 8600 20	on request	667 11 1128 8600 30	on request	667 11 1128 8600 50	

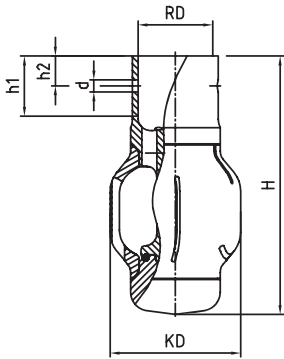
TANKO® RPB35 (Rotating Pipe Ball) 360°


		2.4610 (HC4)		2.4602 (HC22)			
Connection	Price/EUR	Item no.	Price/EUR	Item no.			
Thread	on request	667 11 1013 2300 70	on request	667 11 1013 2300 80			
Thread	on request	667 11 1113 2300 70	on request	667 11 1113 2300 80			
Thread	on request	667 11 1023 2300 70	on request	667 11 1023 2300 80			
Thread	on request	667 11 1123 2300 70	on request	667 11 1123 2300 80			
Thread	on request	667 11 1013 2400 70	on request	667 11 1013 2400 80			
Thread	on request	667 11 1113 2400 70	on request	667 11 1113 2400 80			
Thread	on request	667 11 1023 2400 70	on request	667 11 1023 2400 80			
Thread	on request	667 11 1123 2400 70	on request	667 11 1123 2400 80			
Weldon	on request	667 11 1016 6600 70	on request	667 11 1016 6600 80			
Weldon	on request	667 11 1116 6600 70	on request	667 11 1116 6600 80			
Weldon	on request	667 11 1026 6600 70	on request	667 11 1026 6600 80			
Weldon	on request	667 11 1126 6600 70	on request	667 11 1126 6600 80			
Weldon	on request	667 11 1017 7600 70	on request	667 11 1017 7600 80			
Weldon	on request	667 11 1117 7600 70	on request	667 11 1117 7600 80			
Weldon	on request	667 11 1027 7600 70	on request	667 11 1027 7600 80			
Weldon	on request	667 11 1127 7600 70	on request	667 11 1127 7600 80			
Weldon	on request	667 11 1018 8600 70	on request	667 11 1018 8600 80			
Weldon	on request	667 11 1118 8600 70	on request	667 11 1118 8600 80			
Weldon	on request	667 11 1028 8600 70	on request	667 11 1028 8600 80			
Weldon	on request	667 11 1128 8600 70	on request	667 11 1128 8600 80			

DP-Rinsing, Slide bearing		DP-Rinsing, Ball bearing		Slidebearing	Ball bearing
Pressure/bar	Volume m ³ /h	Volume m ³ /h	Volume m ³ /h	Volume m ³ /h	Volume m ³ /h
1,0	1,30	1,35	1,20	1,25	
1,5	1,60	1,70	1,50	1,60	
2,0	1,90	2,00	1,80	1,90	

TANKO® SF

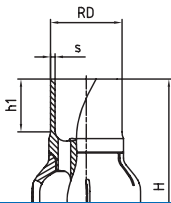
Clipon



Connec- tion	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	 g
Clipon	Reihe A (DIN)	15	19,3	—	35	70	16	8	3,2	110
Weldon	Reihe A (DIN)	20	23	1,5	35	70	17	—	—	110

technical details see page 32

Weldon





TANKO® SF

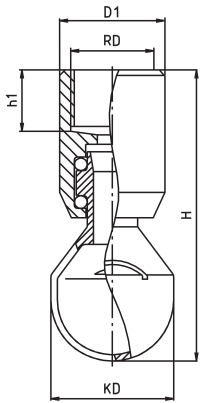
1.4435 (316L)

Connection	DN	Price/EUR	Item no.				
Clipon	15	on request	665 F4 41A1 6230				
Weldon	20	on request	665 F4 42A1 6630				

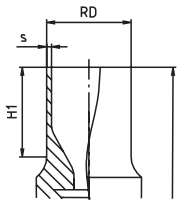


TANKO® S10 360°


Thread




Weldon



D1 = 8,5 mm

Connec- tion	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	
Weldon	series A (DIN)	6	8,0	1,0	10	53	27	--	--	13,6
Thread	DIN 13 T.1	6	M5	--	10	25	4	--	--	7

Connec- tion	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	
Weldon	series A (DIN)	6	8,0	1,0	10	53	27	--	--	13,6
Thread	DIN 13 T.1	6	M5	--	10	25	4	--	--	7



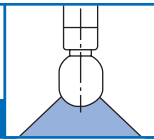
TANKO® S10 360°

		1.4571 (316Ti)		1.4435 (316L)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.		
Weldon	6	on request	665 01 3800 1650	on request	665 01 3800 1630		
Thread	6	on request	665 01 7200 1550	on request	665 01 7200 1530		

TANKO® S10 360°

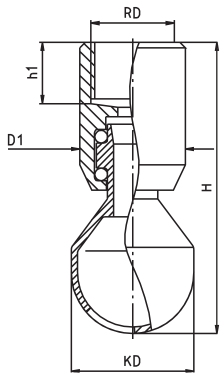
		2.4602 (HC22)		2.4610 (HC4)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.		
Weldon	6	on request	665 01 3800 1680	on request	665 01 3800 1670		
Thread	6	on request	665 01 7200 1580	on request	665 01 7200 1570		

Material specifications for TANKO® S such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. TANKO® S made of 2.4610 HC 4 or 2.4602 HC 22 the base plate, spray head and ball bearings are made of 2.4610 (HC 4) or 2.4602 (HC 22).



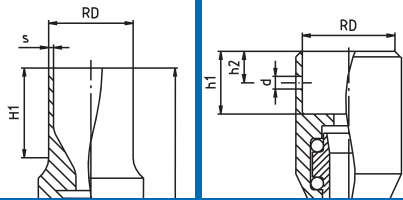
TANKO® S20 90° downwards

Thread



Weldon

Clipon

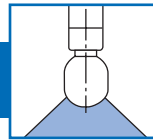


D1 = 14,5 mm (not for Clipon)

Connec- tion	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	
Clipon	series A (DIN)	8	10,2	—	17	43	7	3	2,2	26
Clipon	series B (ISO)	6	10,4	—	17	43	7	3	2,2	26
Weldon	series A (DIN)	8	10,0	1,0	17	69	27	—	—	36
Weldon	series A (DIN)	10	13,0	1,5	17	69	27	—	—	47
Weldon	series B (ISO)	8	13,5	1,6	17	69	27	—	—	47
Weldon	series C (ASME)	8	1/2"(12,7)	1,65	17	69	27	—	—	47
Thread	BSP	6	G 1/8"	—	17	43	7	—	—	27
Thread	NPT	6	1/8"	—	17	43	7	—	—	27
Thread	NPS	6	1/8"	—	17	43	7	—	—	27

Connec- tion	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	
Clipon	series A (DIN)	8	10,2	—	17	43	7	3	2,2	26
Clipon	series B (ISO)	6	10,4	—	17	43	7	3	2,2	26
Weldon	series A (DIN)	8	10,0	1,0	17	69	27	—	—	36
Weldon	series A (DIN)	10	13,0	1,5	17	69	27	—	—	47
Weldon	series B (ISO)	8	13,5	1,6	17	69	27	—	—	47
Weldon	series C (ASME)	8	1/2"(12,7)	1,65	17	69	27	—	—	47
Thread	BSP	6	G 1/8"	—	17	43	7	—	—	27
Thread	NPT	6	1/8"	—	17	43	7	—	—	27
Thread	NPS	6	1/8"	—	17	43	7	—	—	27

Combine the TANKO® S connection NPS-thread with the weldon nipple NPSM.
(page 26-27)



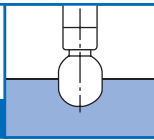
TANKO® S20 90° downwards

			1.4571 (316Ti)		1.4435 (316L)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.			
Clipon	8	on request	665 02 3900 3251	on request	665 02 3900 3231			
Clipon	6	on request	665 02 7400 3251	on request	665 02 7400 3231			
Weldon	8	on request	665 02 3900 3651	on request	665 02 3900 3631			
Weldon	10	on request	665 02 4000 3651	on request	665 02 4000 3631			
Weldon	8	on request	665 02 7500 3651	on request	665 02 7500 3631			
Weldon	8	on request	665 02 8900 3651	on request	665 02 8900 3631			
Thread	6	on request	665 02 7400 3351	on request	665 02 7400 3331			
Thread	6	on request	665 02 7400 3451	on request	665 02 7400 3431			
Thread	6	on request	665 02 7400 3A51	on request	665 02 7400 3A31			

TANKO® S20 90° downwards

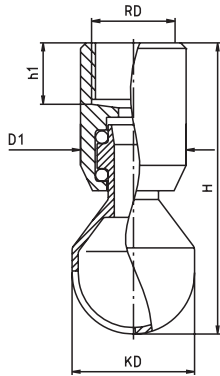
			2.4602 (HC22)		2.4610 (HC4)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.			
Clipon	8	on request	665 02 3900 3281	on request	665 02 3900 3271			
Clipon	6	on request	665 02 7400 3281	on request	665 02 7400 3271			
Weldon	8	on request	665 02 3900 3681	on request	665 02 3900 3671			
Weldon	10	on request	665 02 4000 3681	on request	665 02 4000 3671			
Weldon	8	on request	665 02 7500 3681	on request	665 02 7500 3671			
Weldon	8	on request	665 02 8900 3681	on request	665 02 8900 3671			
Thread	6	on request	665 02 7400 3381	on request	665 02 7400 3371			
Thread	6	on request	665 02 7400 3481	on request	665 02 7400 3471			
Thread	6	on request	665 02 7400 3A81	on request	665 02 7400 3A71			

Material specifications for TANKO® S such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. TANKO® S made of 2.4610 HC 4 or 2.4602 HC 22 the base plate, spray head and ball bearings are made of 2.4610 (HC 4) or 2.4602 (HC 22).



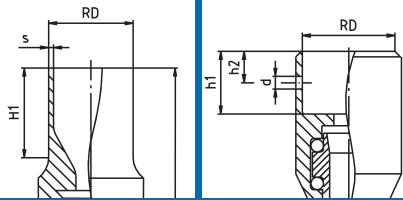
TANKO® S20 180° downwards

Thread



Weldon

Clipon

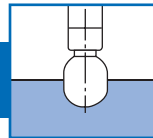


D1 = 14,5 mm (not for Clipon)

Connec- tion	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	
Clipon	series A (DIN)	8	10,2	—	17	43	7	3	2,2	26
Clipon	series B (ISO)	6	10,4	—	17	43	7	3	2,2	26
Weldon	series A (DIN)	8	10,0	1,0	17	69	27	—	—	36
Weldon	series A (DIN)	10	13,0	1,5	17	69	27	—	—	47
Weldon	series B (ISO)	8	13,5	1,6	17	69	27	—	—	47
Weldon	series C (ASME)	8	1/2"(12,7)	1,65	17	69	27	—	—	47
Thread	BSP	6	G 1/8"	—	17	43	7	—	—	27
Thread	NPT	6	1/8"	—	17	43	7	—	—	27
Thread	NPS	6	1/8"	—	17	43	7	—	—	27

Connec- tion	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	
Clipon	series A (DIN)	8	10,2	—	17	43	7	3	2,2	26
Clipon	series B (ISO)	6	10,4	—	17	43	7	3	2,2	26
Weldon	series A (DIN)	8	10,0	1,0	17	69	27	—	—	36
Weldon	series A (DIN)	10	13,0	1,5	17	69	27	—	—	47
Weldon	series B (ISO)	8	13,5	1,6	17	69	27	—	—	47
Weldon	series C (ASME)	8	1/2"(12,7)	1,65	17	69	27	—	—	47
Thread	BSP	6	G 1/8"	—	17	43	7	—	—	27
Thread	NPT	6	1/8"	—	17	43	7	—	—	27
Thread	NPS	6	1/8"	—	17	43	7	—	—	27

Combine the TANKO® S connection NPS-thread with the weldon nipple NPSM. (page 26-27)



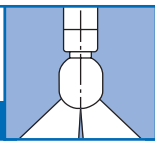
TANKO® S20 180° downwards

			1.4571 (316Ti)		1.4435 (316L)	
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.	
Clipon	8	on request	665 02 3900 2251	on request	665 02 3900 2231	
Clipon	6	on request	665 02 7400 2251	on request	665 02 7400 2231	
Weldon	8	on request	665 02 3900 2651	on request	665 02 3900 2631	
Weldon	10	on request	665 02 4000 2651	on request	665 02 4000 2631	
Weldon	8	on request	665 02 7500 2651	on request	665 02 7500 2631	
Weldon	8	on request	665 02 8900 2651	on request	665 02 8900 2631	
Thread	6	on request	665 02 7400 2351	on request	665 02 7400 2331	
Thread	6	on request	665 02 7400 2451	on request	665 02 7400 2431	
Thread	6	on request	665 02 7400 2A51	on request	665 02 7400 2A31	

TANKO® S20 180° downwards

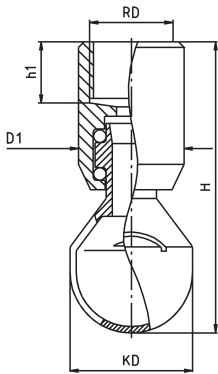
			2.4602 (HC22)		2.4610 (HC4)	
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.	
Clipon	8	on request	665 02 3900 2281	on request	665 02 3900 2271	
Clipon	6	on request	665 02 7400 2281	on request	665 02 7400 2271	
Weldon	8	on request	665 02 3900 2681	on request	665 02 3900 2671	
Weldon	10	on request	665 02 4000 2681	on request	665 02 4000 2671	
Weldon	8	on request	665 02 7500 2681	on request	665 02 7500 2671	
Weldon	8	on request	665 02 8900 2681	on request	665 02 8900 2671	
Thread	6	on request	665 02 7400 2381	on request	665 02 7400 2371	
Thread	6	on request	665 02 7400 2481	on request	665 02 7400 2471	
Thread	6	on request	665 02 7400 2A81	on request	665 02 7400 2A71	

Material specifications for TANKO® S such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. TANKO® S made of 2.4610 HC 4 or 2.4602 HC 22 the base plate, spray head and ball bearings are made of 2.4610 (HC 4) or 2.4602 (HC 22).



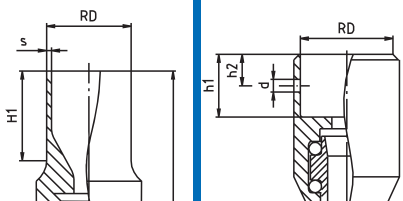
TANKO® S20 270° upwards

Thread



Weldon

Clipon

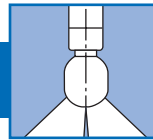


D1 = 14,5 mm (not for Clipon)

Connec- tion	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	
Clipon	series A (DIN)	8	10,2	—	17	43	7	3	2,2	26
Clipon	series B (ISO)	6	10,4	—	17	43	7	3	2,2	26
Weldon	series A (DIN)	8	10,0	1,0	17	69	27	—	—	36
Weldon	series A (DIN)	10	13,0	1,5	17	69	27	—	—	47
Weldon	series B (ISO)	8	13,5	1,6	17	69	27	—	—	47
Weldon	series C (ASME)	8	1/2"(12,7)	1,65	17	69	27	—	—	47
Thread	BSP	6	G 1/8"	—	17	43	7	—	—	27
Thread	NPT	6	1/8"	—	17	43	7	—	—	27
Thread	NPS	6	1/8"	—	17	43	7	—	—	27

Connec- tion	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	
Clipon	series A (DIN)	8	10,2	—	17	43	7	3	2,2	26
Clipon	series B (ISO)	6	10,4	—	17	43	7	3	2,2	26
Weldon	series A (DIN)	8	10,0	1,0	17	69	27	—	—	36
Weldon	series A (DIN)	10	13,0	1,5	17	69	27	—	—	47
Weldon	series B (ISO)	8	13,5	1,6	17	69	27	—	—	47
Weldon	series C (ASME)	8	1/2"(12,7)	1,65	17	69	27	—	—	47
Thread	BSP	6	G 1/8"	—	17	43	7	—	—	27
Thread	NPT	6	1/8"	—	17	43	7	—	—	27
Thread	NPS	6	1/8"	—	17	43	7	—	—	27

Combine the TANKO® S connection NPS-thread with the weldon nipple NPSM.
(page 26-27)



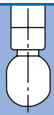
TANKO® S20 270° upwards

			1.4571 (316Ti)		1.4435 (316L)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.			
Clipon	8	on request	665 02 3900 6251	on request	665 02 3900 6231			
Clipon	6	on request	665 02 7400 6251	on request	665 02 7400 6231			
Weldon	8	on request	665 02 3900 6651	on request	665 02 3900 6631			
Weldon	10	on request	665 02 4000 6651	on request	665 02 4000 6631			
Weldon	8	on request	665 02 7500 6651	on request	665 02 7500 6631			
Weldon	8	on request	665 02 8900 6651	on request	665 02 8900 6631			
Thread	6	on request	665 02 7400 6351	on request	665 02 7400 6331			
Thread	6	on request	665 02 7400 6451	on request	665 02 7400 6431			
Thread	6	on request	665 02 7400 6A51	on request	665 02 7400 6A31			

TANKO® S20 270° upwards

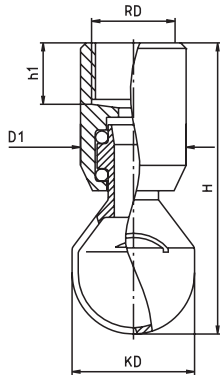
			2.4602 (HC22)		2.4610 (HC4)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.			
Clipon	8	on request	665 02 3900 6281	on request	665 02 3900 6271			
Clipon	6	on request	665 02 7400 6281	on request	665 02 7400 6271			
Weldon	8	on request	665 02 3900 6681	on request	665 02 3900 6671			
Weldon	10	on request	665 02 4000 6681	on request	665 02 4000 6671			
Weldon	8	on request	665 02 7500 6681	on request	665 02 7500 6671			
Weldon	8	on request	665 02 8900 6681	on request	665 02 8900 6671			
Thread	6	on request	665 02 7400 6381	on request	665 02 7400 6371			
Thread	6	on request	665 02 7400 6481	on request	665 02 7400 6471			
Thread	6	on request	665 02 7400 6A81	on request	665 02 7400 6A71			

Material specifications for TANKO® S such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. TANKO® S made of 2.4610 HC 4 or 2.4602 HC 22 the base plate, spray head and ball bearings are made of 2.4610 (HC 4) or 2.4602 (HC 22).



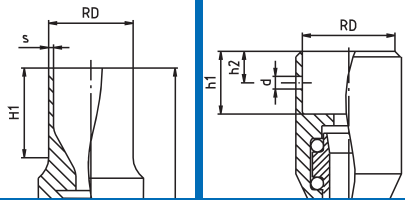
TANKO® S20 360°

Thread



Weldon

Clipon



D1 = 14,5 mm (not for Clipon)

Connec- tion	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	
Clipon	series A (DIN)	8	10,2	—	17	43	7	3	2,2	26
Clipon	series B (ISO)	6	10,4	—	17	43	7	3	2,2	26
Clipon	series 1 (DIN 11850) and old series	10	12,2	—	17	45	7	3	2,2	26
Weldon	series A (DIN)	8	10,0	1,0	17	69	27	—	—	36
Weldon	series A (DIN)	10	13,0	1,5	17	69	27	—	—	47
Weldon	series B (ISO)	8	13,5	1,6	17	69	27	—	—	47
Weldon	series C (ASME)	8	1/2"(12,7)	1,65	17	69	27	—	—	47
Thread	BSP	6	G 1/8"	—	17	43	7	—	—	27
Thread	NPT	6	1/8"	—	17	43	7	—	—	27
Thread	NPS	6	1/8"	—	17	43	7	—	—	27

Connec- tion	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	
Clipon	series A (DIN)	8	10,2	—	17	43	7	3	2,2	26
Clipon	series B (ISO)	6	10,4	—	17	43	7	3	2,2	26
Clipon	series 1 (DIN 11850) and old series	10	12,2	—	17	45	7	3	2,2	26
Weldon	series A (DIN)	8	10,0	1,0	17	69	27	—	—	36
Weldon	series A (DIN)	10	13,0	1,5	17	69	27	—	—	47
Weldon	series B (ISO)	8	13,5	1,6	17	69	27	—	—	47
Weldon	series C (ASME)	8	1/2"(12,7)	1,65	17	69	27	—	—	47
Thread	BSP	6	G 1/8"	—	17	43	7	—	—	27
Thread	NPT	6	1/8"	—	17	43	7	—	—	27
Thread	NPS	6	1/8"	—	17	43	7	—	—	27

Combine the TANKO® S connection NPS-thread with the weldon nipple NPSM.
(page 26-27)



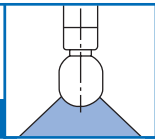
TANKO® S20 360°

			1.4571 (316Ti)		1.4435 (316L)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.			
Clipon	8	on request	665 02 3900 1251	on request	665 02 3900 1231			
Clipon	6	on request	665 02 7400 1251	on request	665 02 7400 1231			
Clipon	10	on request	665 02 A100 1251	on request	665 02 A100 1231			
Weldon	8	on request	665 02 3900 1651	on request	665 02 3900 1631			
Weldon	10	on request	665 02 4000 1651	on request	665 02 4000 1631			
Weldon	8	on request	665 02 7500 1651	on request	665 02 7500 1631			
Weldon	8	on request	665 02 8900 1651	on request	665 02 8900 1631			
Thread	6	on request	665 02 7400 1351	on request	665 02 7400 1331			
Thread	6	on request	665 02 7400 1451	on request	665 02 7400 1431			
Thread	6	on request	665 02 7400 1A51	on request	665 02 7400 1A31			

TANKO® S20 360°

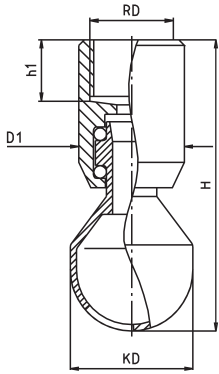
			2.4602 (HC22)		2.4610 (HC4)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.			
Clipon	8	on request	665 02 3900 1281	on request	665 02 3900 1271			
Clipon	6	on request	665 02 7400 1281	on request	665 02 7400 1271			
Clipon	10	on request	665 02 A100 1281	on request	665 02 A100 1271			
Weldon	8	on request	665 02 3900 1681	on request	665 02 3900 1671			
Weldon	10	on request	665 02 4000 1681	on request	665 02 4000 1671			
Weldon	8	on request	665 02 7500 1681	on request	665 02 7500 1671			
Weldon	8	on request	665 02 8900 1681	on request	665 02 8900 1671			
Thread	6	on request	665 02 7400 1381	on request	665 02 7400 1371			
Thread	6	on request	665 02 7400 1481	on request	665 02 7400 1471			
Thread	6	on request	665 02 7400 1A81	on request	665 02 7400 1A71			

Material specifications for TANKO® S such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. TANKO® S made of 2.4610 HC 4 or 2.4602 HC 22 the base plate, spray head and ball bearings are made of 2.4610 (HC 4) or 2.4602 (HC 22).



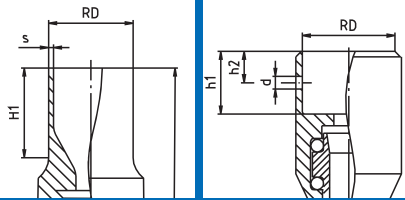
TANKO® S30 90° downwards

Thread



Weldon

Clipon

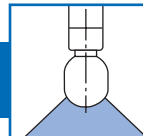


D1 = 21,5 mm (not for Clipon)

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	g
Clipon	series A (DIN)	15	19,3	—	28	60	10,5	5	2,2	81
Clipon	series B (ISO)	10	17,5	—	28	60	10,5	5	2,2	84
Clipon	series B (ISO)	15	21,6	—	28	60	10,5	5	2,2	95
Clipon	series C (ASME)	15	19,3	—	28	60	10,5	5	2,2	81
Clipon	series 1 (DIN 11850) and old series	15	18,3	—	28	60	10,5	5	2,2	83
Weldon	series A (DIN)	15	19,0	1,5	28	83	26	—	—	123
Weldon	series B (ISO)	10	17,2	1,6	28	83	26	—	—	117
Weldon	series B (ISO)	15	21,3	1,6	28	83	26	—	—	132
Weldon	series C (ASME)	15	3/4" (19,05)	1,65	28	83	26	—	—	127
Thread	BSP	8	G 1/4"	—	28	60	10,5	—	—	90
Thread	BSP	10	G 3/8"	—	28	60	10,5	—	—	95
Thread	NPT	8	1/4"	—	28	60	10,5	—	—	90
Thread	NPT	10	3/8"	—	28	60	10,5	—	—	95
Thread	NPS	10	3/8"	—	28	60	10,5	—	—	95

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	g
Clipon	series A (DIN)	15	19,3	—	28	60	10,5	5	2,2	81
Clipon	series B (ISO)	10	17,5	—	28	60	10,5	5	2,2	84
Clipon	series B (ISO)	15	21,6	—	28	60	10,5	5	2,2	95
Clipon	series C (ASME)	15	19,3	—	28	60	10,5	5	2,2	81
Clipon	series 1 (DIN 11850) and old series	15	18,3	—	28	60	10,5	5	2,2	83
Weldon	series A (DIN)	15	19,0	1,5	28	83	26	—	—	123
Weldon	series B (ISO)	10	17,2	1,6	28	83	26	—	—	117
Weldon	series B (ISO)	15	21,3	1,6	28	83	26	—	—	132
Weldon	series C (ASME)	15	3/4" (19,05)	1,65	28	83	26	—	—	127
Thread	BSP	8	G 1/4"	—	28	60	10,5	—	—	90
Thread	BSP	10	G 3/8"	—	28	60	10,5	—	—	95
Thread	NPT	8	1/4"	—	28	60	10,5	—	—	90
Thread	NPT	10	3/8"	—	28	60	10,5	—	—	95
Thread	NPS	10	3/8"	—	28	60	10,5	—	—	95

Combine the TANKO® S connection NPS-thread with the weldon nipple NPSM.
(page 26-27)



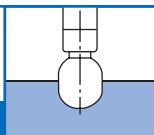
TANKO® S30 90° downwards

			1.4571 (316Ti)		1.4435 (316L)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.			
Clipon	15	on request	665 03 4100 3251	on request	665 03 4100 3231			
Clipon	10	on request	665 03 7600 3251	on request	665 03 7600 3231			
Clipon	15	on request	665 03 7700 3251	on request	665 03 7700 3231			
Clipon	15	on request	665 03 9000 3251	on request	665 03 9000 3231			
Clipon	15	on request	665 03 A200 3251	on request	665 03 A200 3231			
Weldon	15	on request	665 03 4100 3651	on request	665 03 4100 3631			
Weldon	10	on request	665 03 7600 3651	on request	665 03 7600 3631			
Weldon	15	on request	665 03 7700 3651	on request	665 03 7700 3631			
Weldon	15	on request	665 03 9000 3651	on request	665 03 9000 3631			
Thread	8	on request	665 03 7500 3351	on request	665 03 7500 3331			
Thread	10	on request	665 03 7600 3351	on request	665 03 7600 3331			
Thread	8	on request	665 03 7500 3451	on request	665 03 7500 3431			
Thread	10	on request	665 03 7600 3451	on request	665 03 7600 3431			
Thread	10	on request	665 03 7600 3A51	on request	665 03 7600 3A31			

TANKO® S30 90° downwards

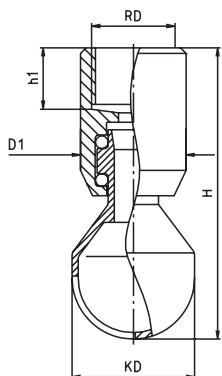
			2.4602 (HC22)		2.4610 (HC4)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.			
Clipon	15	on request	665 03 4100 3281	on request	665 03 4100 3271			
Clipon	10	on request	665 03 7600 3281	on request	665 03 7600 3271			
Clipon	15	on request	665 03 7700 3281	on request	665 03 7700 3271			
Clipon	15	on request	665 03 9000 3281	on request	665 03 9000 3271			
Clipon	15	on request	665 03 A200 3281	on request	665 03 A200 3271			
Weldon	15	on request	665 03 4100 3681	on request	665 03 4100 3671			
Weldon	10	on request	665 03 7600 3681	on request	665 03 7600 3671			
Weldon	15	on request	665 03 7700 3681	on request	665 03 7700 3671			
Weldon	15	on request	665 03 9000 3681	on request	665 03 9000 3671			
Thread	8	on request	665 03 7500 3381	on request	665 03 7500 3371			
Thread	10	on request	665 03 7600 3381	on request	665 03 7600 3371			
Thread	8	on request	665 03 7500 3481	on request	665 03 7500 3471			
Thread	10	on request	665 03 7600 3481	on request	665 03 7600 3471			
Thread	10	on request	665 03 7600 3A81	on request	665 03 7600 3A71			

Material specifications for TANKO® S such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. TANKO® S made of 2.4610 HC 4 or 2.4602 HC 22 the base plate, spray head and ball bearings are made of 2.4610 (HC 4) or 2.4602 (HC 22).



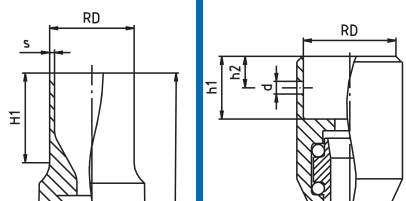
TANKO® S30 180° downwards

Thread



Weldon

Clipon

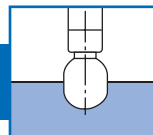


D1 = 21,5 mm (not for Clipon)

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	g
Clipon	series A (DIN)	15	19,3	—	28	60	10,5	5	2,2	81
Clipon	series B (ISO)	10	17,5	—	28	60	10,5	5	2,2	84
Clipon	series B (ISO)	15	21,6	—	28	60	10,5	5	2,2	95
Clipon	series C (ASME)	15	19,3	—	28	60	10,5	5	2,2	81
Clipon	series 1 (DIN 11850) and old series	15	18,3	—	28	60	10,5	5	2,2	83
Weldon	series A (DIN)	15	19,0	1,5	28	83	26	—	—	123
Weldon	series B (ISO)	10	17,2	1,6	28	83	26	—	—	117
Weldon	series B (ISO)	15	21,3	1,6	28	83	26	—	—	132
Weldon	series C (ASME)	15	3/4" (19,05)	1,65	28	83	26	—	—	127
Thread	BSP	8	G 1/4"	—	28	60	10,5	—	—	90
Thread	BSP	10	G 3/8"	—	28	60	10,5	—	—	95
Thread	NPT	8	1/4"	—	28	60	10,5	—	—	90
Thread	NPT	10	3/8"	—	28	60	10,5	—	—	95
Thread	NPS	10	3/8"	—	28	60	10,5	—	—	95

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	g
Clipon	series A (DIN)	15	19,3	—	28	60	10,5	5	2,2	81
Clipon	series B (ISO)	10	17,5	—	28	60	10,5	5	2,2	84
Clipon	series B (ISO)	15	21,6	—	28	60	10,5	5	2,2	95
Clipon	series C (ASME)	15	19,3	—	28	60	10,5	5	2,2	81
Clipon	series 1 (DIN 11850) and old series	15	18,3	—	28	60	10,5	5	2,2	83
Weldon	series A (DIN)	15	19,0	1,5	28	83	26	—	—	123
Weldon	series B (ISO)	10	17,2	1,6	28	83	26	—	—	117
Weldon	series B (ISO)	15	21,3	1,6	28	83	26	—	—	132
Weldon	series C (ASME)	15	3/4" (19,05)	1,65	28	83	26	—	—	127
Thread	BSP	8	G 1/4"	—	28	60	10,5	—	—	90
Thread	BSP	10	G 3/8"	—	28	60	10,5	—	—	95
Thread	NPT	8	1/4"	—	28	60	10,5	—	—	90
Thread	NPT	10	3/8"	—	28	60	10,5	—	—	95
Thread	NPS	10	3/8"	—	28	60	10,5	—	—	95

Combine the TANKO® S connection NPS-thread with the weldon nipple NPSM.
(page 26-27)



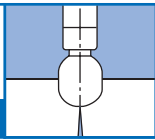
TANKO® S30 180° downwards

			1.4571 (316Ti)		1.4435 (316L)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.			
Clipon	15	on request	665 03 4100 2251	on request	665 03 4100 2231			
Clipon	10	on request	665 03 7600 2251	on request	665 03 7600 2231			
Clipon	15	on request	665 03 7700 2251	on request	665 03 7700 2231			
Clipon	15	on request	665 03 9000 2251	on request	665 03 9000 2231			
Clipon	15	on request	665 03 A200 2251	on request	665 03 A200 2231			
Weldon	15	on request	665 03 4100 2651	on request	665 03 4100 2631			
Weldon	10	on request	665 03 7600 2651	on request	665 03 7600 2631			
Weldon	15	on request	665 03 7700 2651	on request	665 03 7700 2631			
Weldon	15	on request	665 03 9000 2651	on request	665 03 9000 2631			
Thread	8	on request	665 03 7500 2351	on request	665 03 7500 2331			
Thread	10	on request	665 03 7600 2351	on request	665 03 7600 2331			
Thread	8	on request	665 03 7500 2451	on request	665 03 7500 2431			
Thread	10	on request	665 03 7600 2451	on request	665 03 7600 2431			
Thread	10	on request	665 03 7600 2A51	on request	665 03 7600 2A31			

TANKO® S30 180° downwards

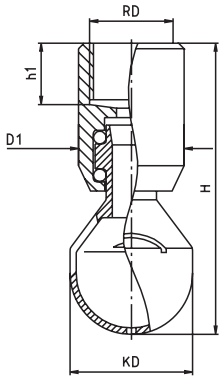
			2.4602 (HC22)		2.4610 (HC4)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.			
Clipon	15	on request	665 03 4100 2281	on request	665 03 4100 2271			
Clipon	10	on request	665 03 7600 2281	on request	665 03 7600 2271			
Clipon	15	on request	665 03 7700 2281	on request	665 03 7700 2271			
Clipon	15	on request	665 03 9000 2281	on request	665 03 9000 2271			
Clipon	15	on request	665 03 A200 2281	on request	665 03 A200 2271			
Weldon	15	on request	665 03 4100 2681	on request	665 03 4100 2671			
Weldon	10	on request	665 03 7600 2681	on request	665 03 7600 2671			
Weldon	15	on request	665 03 7700 2681	on request	665 03 7700 2671			
Weldon	15	on request	665 03 9000 2681	on request	665 03 9000 2671			
Thread	8	on request	665 03 7500 2381	on request	665 03 7500 2371			
Thread	10	on request	665 03 7600 2381	on request	665 03 7600 2371			
Thread	8	on request	665 03 7500 2481	on request	665 03 7500 2471			
Thread	10	on request	665 03 7600 2481	on request	665 03 7600 2471			
Thread	10	on request	665 03 7600 2A81	on request	665 03 7600 2A71			

Material specifications for TANKO® S such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. TANKO® S made of 2.4610 HC 4 or 2.4602 HC 22 the base plate, spray head and ball bearings are made of 2.4610 (HC 4) or 2.4602 (HC 22).



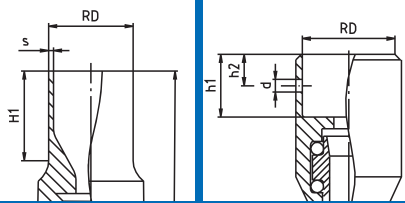
TANKO® S30 180° upwards

Thread



Weldon

Clipon

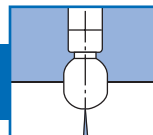


D1 = 21,5 mm (not for Clipon)

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	g
Clipon	series A (DIN)	15	19,3	—	28	60	10,5	5	2,2	81
Clipon	series B (ISO)	10	17,5	—	28	60	10,5	5	2,2	84
Clipon	series B (ISO)	15	21,6	—	28	60	10,5	5	2,2	95
Clipon	series C (ASME)	15	19,3	—	28	60	10,5	5	2,2	81
Clipon	series 1 (DIN 11850) and old series	15	18,3	—	28	60	10,5	5	2,2	83
Weldon	series A (DIN)	15	19,0	1,5	28	83	26	—	—	123
Weldon	series B (ISO)	10	17,2	1,6	28	83	26	—	—	117
Weldon	series B (ISO)	15	21,3	1,6	28	83	26	—	—	132
Weldon	series C (ASME)	15	3/4" (19,05)	1,65	28	83	26	—	—	127
Thread	BSP	8	G 1/4"	—	28	60	10,5	—	—	90
Thread	BSP	10	G 3/8"	—	28	60	10,5	—	—	95
Thread	NPT	8	1/4"	—	28	60	10,5	—	—	90
Thread	NPT	10	3/8"	—	28	60	10,5	—	—	95
Thread	NPS	10	3/8"	—	28	60	10,5	—	—	95

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	g
Clipon	series A (DIN)	15	19,3	—	28	60	10,5	5	2,2	81
Clipon	series B (ISO)	10	17,5	—	28	60	10,5	5	2,2	84
Clipon	series B (ISO)	15	21,6	—	28	60	10,5	5	2,2	95
Clipon	series C (ASME)	15	19,3	—	28	60	10,5	5	2,2	81
Clipon	series 1 (DIN 11850) and old series	15	18,3	—	28	60	10,5	5	2,2	83
Weldon	series A (DIN)	15	19,0	1,5	28	83	26	—	—	123
Weldon	series B (ISO)	10	17,2	1,6	28	83	26	—	—	117
Weldon	series B (ISO)	15	21,3	1,6	28	83	26	—	—	132
Weldon	series C (ASME)	15	3/4" (19,05)	1,65	28	83	26	—	—	127
Thread	BSP	8	G 1/4"	—	28	60	10,5	—	—	90
Thread	BSP	10	G 3/8"	—	28	60	10,5	—	—	95
Thread	NPT	8	1/4"	—	28	60	10,5	—	—	90
Thread	NPT	10	3/8"	—	28	60	10,5	—	—	95
Thread	NPS	10	3/8"	—	28	60	10,5	—	—	95

Combine the TANKO® S connection NPS-thread with the weldon nipple NPSM.
(page 26-27)



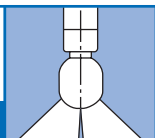
TANKO® S30 180° upwards

			1.4571 (316Ti)		1.4435 (316L)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.			
Clipon	15	on request	665 03 4100 7251	on request	665 03 4100 7231			
Clipon	10	on request	665 03 7600 7251	on request	665 03 7600 7231			
Clipon	15	on request	665 03 7700 7251	on request	665 03 7700 7231			
Clipon	15	on request	665 03 9000 7251	on request	665 03 9000 7231			
Clipon	15	on request	665 03 A200 7251	on request	665 03 A200 7231			
Weldon	15	on request	665 03 4100 7651	on request	665 03 4100 7631			
Weldon	10	on request	665 03 7600 7651	on request	665 03 7600 7631			
Weldon	15	on request	665 03 7700 7651	on request	665 03 7700 7631			
Weldon	15	on request	665 03 9000 7651	on request	665 03 9000 7631			
Thread	8	on request	665 03 7500 7351	on request	665 03 7500 7331			
Thread	10	on request	665 03 7600 7351	on request	665 03 7600 7331			
Thread	8	on request	665 03 7500 7451	on request	665 03 7500 7431			
Thread	10	on request	665 03 7600 7451	on request	665 03 7600 7431			
Thread	10	on request	665 03 7600 7A51	on request	665 03 7600 7A31			

TANKO® S30 180° upwards

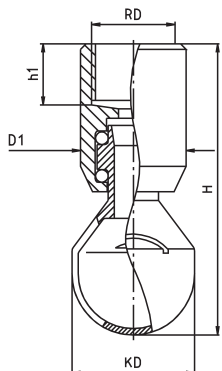
			2.4602 (HC22)		2.4610 (HC4)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.			
Clipon	15	on request	665 03 4100 7281	on request	665 03 4100 7271			
Clipon	10	on request	665 03 7600 7281	on request	665 03 7600 7271			
Clipon	15	on request	665 03 7700 7281	on request	665 03 7700 7271			
Clipon	15	on request	665 03 9000 7281	on request	665 03 9000 7271			
Clipon	15	on request	665 03 A200 7281	on request	665 03 A200 7271			
Weldon	15	on request	665 03 4100 7681	on request	665 03 4100 7671			
Weldon	10	on request	665 03 7600 7681	on request	665 03 7600 7671			
Weldon	15	on request	665 03 7700 7681	on request	665 03 7700 7671			
Weldon	15	on request	665 03 9000 7681	on request	665 03 9000 7671			
Thread	8	on request	665 03 7500 7381	on request	665 03 7500 7371			
Thread	10	on request	665 03 7600 7381	on request	665 03 7600 7371			
Thread	8	on request	665 03 7500 7481	on request	665 03 7500 7471			
Thread	10	on request	665 03 7600 7481	on request	665 03 7600 7471			
Thread	10	on request	665 03 7600 7A81	on request	665 03 7600 7A71			

Material specifications for TANKO® S such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. TANKO® S made of 2.4610 HC 4 or 2.4602 HC 22 the base plate, spray head and ball bearings are made of 2.4610 (HC 4) or 2.4602 (HC 22).



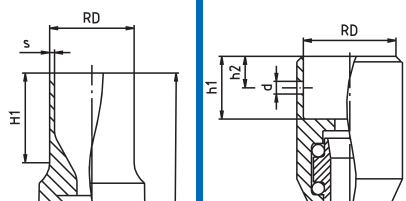
TANKO® S30 270° upwards

Thread



Weldon

Clipon

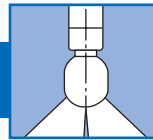


D1 = 21,5 mm (not for Clipon)

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	g
Clipon	series A (DIN)	15	19,3	—	28	60	10,5	5	2,2	81
Clipon	series B (ISO)	10	17,5	—	28	60	10,5	5	2,2	84
Clipon	series B (ISO)	15	21,6	—	28	60	10,5	5	2,2	95
Clipon	series C (ASME)	15	19,3	—	28	60	10,5	5	2,2	81
Clipon	series 1 (DIN 11850) and old series	15	18,3	—	28	60	10,5	5	2,2	83
Weldon	series A (DIN)	15	19,0	1,5	28	83	26	—	—	123
Weldon	series B (ISO)	10	17,2	1,6	28	83	26	—	—	117
Weldon	series B (ISO)	15	21,3	1,6	28	83	26	—	—	132
Weldon	series C (ASME)	15	3/4" (19,05)	1,65	28	83	26	—	—	127
Thread	BSP	8	G 1/4"	—	28	60	10,5	—	—	90
Thread	BSP	10	G 3/8"	—	28	60	10,5	—	—	95
Thread	NPT	8	1/4"	—	28	60	10,5	—	—	90
Thread	NPT	10	3/8"	—	28	60	10,5	—	—	95
Thread	NPS	10	3/8"	—	28	60	10,5	—	—	95

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	g
Clipon	series A (DIN)	15	19,3	—	28	60	10,5	5	2,2	81
Clipon	series B (ISO)	10	17,5	—	28	60	10,5	5	2,2	84
Clipon	series B (ISO)	15	21,6	—	28	60	10,5	5	2,2	95
Clipon	series C (ASME)	15	19,3	—	28	60	10,5	5	2,2	81
Clipon	series 1 (DIN 11850) and old series	15	18,3	—	28	60	10,5	5	2,2	83
Weldon	series A (DIN)	15	19,0	1,5	28	83	26	—	—	123
Weldon	series B (ISO)	10	17,2	1,6	28	83	26	—	—	117
Weldon	series B (ISO)	15	21,3	1,6	28	83	26	—	—	132
Weldon	series C (ASME)	15	3/4" (19,05)	1,65	28	83	26	—	—	127
Thread	BSP	8	G 1/4"	—	28	60	10,5	—	—	90
Thread	BSP	10	G 3/8"	—	28	60	10,5	—	—	95
Thread	NPT	8	1/4"	—	28	60	10,5	—	—	90
Thread	NPT	10	3/8"	—	28	60	10,5	—	—	95
Thread	NPS	10	3/8"	—	28	60	10,5	—	—	95

Combine the TANKO® S connection NPS-thread with the weldon nipple NPSM.
(page 26-27)



TANKO® S30 270° upwards

			1.4571 (316Ti)		1.4435 (316L)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.			
Clipon	15	on request	665 03 4100 6251	on request	665 03 4100 6231			
Clipon	10	on request	665 03 7600 6251	on request	665 03 7600 6231			
Clipon	15	on request	665 03 7700 6251	on request	665 03 7700 6231			
Clipon	15	on request	665 03 9000 6251	on request	665 03 9000 6231			
Clipon	15	on request	665 03 A200 6251	on request	665 03 A200 6231			
Weldon	15	on request	665 03 4100 6651	on request	665 03 4100 6631			
Weldon	10	on request	665 03 7600 6651	on request	665 03 7600 6631			
Weldon	15	on request	665 03 7700 6651	on request	665 03 7700 6631			
Weldon	15	on request	665 03 9000 6651	on request	665 03 9000 6631			
Thread	8	on request	665 03 7500 6351	on request	665 03 7500 6331			
Thread	10	on request	665 03 7600 6351	on request	665 03 7600 6331			
Thread	8	on request	665 03 7500 6451	on request	665 03 7500 6431			
Thread	10	on request	665 03 7600 6451	on request	665 03 7600 6431			
Thread	10	on request	665 03 7600 6A51	on request	665 03 7600 6A31			

TANKO® S30 270° upwards

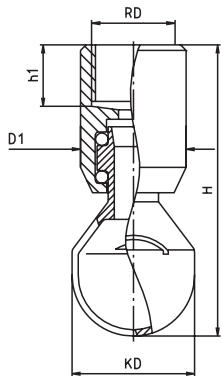
			2.4602 (HC22)		2.4610 (HC4)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.			
Clipon	15	on request	665 03 4100 6281	on request	665 03 4100 6271			
Clipon	10	on request	665 03 7600 6281	on request	665 03 7600 6271			
Clipon	15	on request	665 03 7700 6281	on request	665 03 7700 6271			
Clipon	15	on request	665 03 9000 6281	on request	665 03 9000 6271			
Clipon	15	on request	665 03 A200 6281	on request	665 03 A200 6271			
Weldon	15	on request	665 03 4100 6681	on request	665 03 4100 6671			
Weldon	10	on request	665 03 7600 6681	on request	665 03 7600 6671			
Weldon	15	on request	665 03 7700 6681	on request	665 03 7700 6671			
Weldon	15	on request	665 03 9000 6681	on request	665 03 9000 6671			
Thread	8	on request	665 03 7500 6381	on request	665 03 7500 6371			
Thread	10	on request	665 03 7600 6381	on request	665 03 7600 6371			
Thread	8	on request	665 03 7500 6481	on request	665 03 7500 6471			
Thread	10	on request	665 03 7600 6481	on request	665 03 7600 6471			
Thread	10	on request	665 03 7600 6A81	on request	665 03 7600 6A71			

Material specifications for TANKO® S such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. TANKO® S made of 2.4610 HC 4 or 2.4602 HC 22 the base plate, spray head and ball bearings are made of 2.4610 (HC 4) or 2.4602 (HC 22).



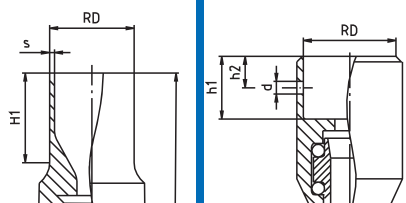
TANKO® S30 360°

Thread



Weldon

Clipon



D1 = 21,5 mm (not for Clipon)

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	
Clipon	series A (DIN)	15	19,3	—	28	60	10,5	5	2,2	81
Clipon	series B (ISO)	10	17,5	—	28	60	10,5	5	2,2	84
Clipon	series B (ISO)	15	21,6	—	28	60	10,5	5	2,2	95
Clipon	series C (ASME)	15	19,3	—	28	60	10,5	5	2,2	81
Clipon	series 1 (DIN 11850) and old series	15	18,3	—	28	60	10,5	5	2,2	83
Weldon	series A (DIN)	15	19,0	1,5	28	83	26	—	—	123
Weldon	series B (ISO)	10	17,2	1,6	28	83	26	—	—	117
Weldon	series B (ISO)	15	21,3	1,6	28	83	26	—	—	132
Weldon	series C (ASME)	15	3/4" (19,05)	1,65	28	83	26	—	—	127
Thread	BSP	8	G 1/4"	—	28	60	10,5	—	—	90
Thread	BSP	10	G 3/8"	—	28	60	10,5	—	—	95
Thread	NPT	8	1/4"	—	28	60	10,5	—	—	90
Thread	NPT	10	3/8"	—	28	60	10,5	—	—	95
Thread	NPS	10	3/8"	—	28	60	10,5	—	—	95

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	
Clipon	series A (DIN)	15	19,3	—	28	60	10,5	5	2,2	81
Clipon	series B (ISO)	10	17,5	—	28	60	10,5	5	2,2	84
Clipon	series B (ISO)	15	21,6	—	28	60	10,5	5	2,2	95
Clipon	series C (ASME)	15	19,3	—	28	60	10,5	5	2,2	81
Clipon	series 1 (DIN 11850) and old series	15	18,3	—	28	60	10,5	5	2,2	83
Weldon	series A (DIN)	15	19,0	1,5	28	83	26	—	—	123
Weldon	series B (ISO)	10	17,2	1,6	28	83	26	—	—	117
Weldon	series B (ISO)	15	21,3	1,6	28	83	26	—	—	132
Weldon	series C (ASME)	15	3/4" (19,05)	1,65	28	83	26	—	—	127
Thread	BSP	8	G 1/4"	—	28	60	10,5	—	—	90
Thread	BSP	10	G 3/8"	—	28	60	10,5	—	—	95
Thread	NPT	8	1/4"	—	28	60	10,5	—	—	90
Thread	NPT	10	3/8"	—	28	60	10,5	—	—	95
Thread	NPS	10	3/8"	—	28	60	10,5	—	—	95

Combine the TANKO® S connection NPS-thread with the weldon nipple NPSM.
(page 26-27)



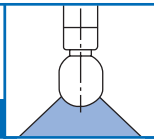
TANKO® S30 360°

			1.4571 (316Ti)		1.4435 (316L)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.			
Clipon	15	on request	665 03 4100 1251	on request	665 03 4100 1231			
Clipon	10	on request	665 03 7600 1251	on request	665 03 7600 1231			
Clipon	15	on request	665 03 7700 1251	on request	665 03 7700 1231			
Clipon	15	on request	665 03 9000 1251	on request	665 03 9000 1231			
Clipon	15	on request	665 03 A200 1251	on request	665 03 A200 1231			
Weldon	15	on request	665 03 4100 1651	on request	665 03 4100 1631			
Weldon	10	on request	665 03 7600 1651	on request	665 03 7600 1631			
Weldon	15	on request	665 03 7700 1651	on request	665 03 7700 1631			
Weldon	15	on request	665 03 9000 1651	on request	665 03 9000 1631			
Thread	8	on request	665 03 7500 1351	on request	665 03 7500 1331			
Thread	10	on request	665 03 7600 1351	on request	665 03 7600 1331			
Thread	8	on request	665 03 7500 1451	on request	665 03 7500 1431			
Thread	10	on request	665 03 7600 1451	on request	665 03 7600 1431			
Thread	10	on request	665 03 7600 1A51	on request	665 03 7600 1A31			

TANKO® S30 360°

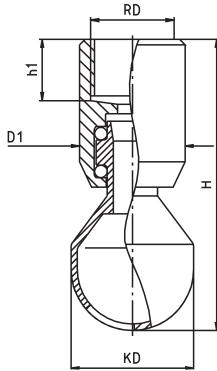
			2.4602 (HC22)		2.4610 (HC4)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.			
Clipon	15	on request	665 03 4100 1281	on request	665 03 4100 1271			
Clipon	10	on request	665 03 7600 1281	on request	665 03 7600 1271			
Clipon	15	on request	665 03 7700 1281	on request	665 03 7700 1271			
Clipon	15	on request	665 03 9000 1281	on request	665 03 9000 1271			
Clipon	15	on request	665 03 A200 1281	on request	665 03 A200 1271			
Weldon	15	on request	665 03 4100 1681	on request	665 03 4100 1671			
Weldon	10	on request	665 03 7600 1681	on request	665 03 7600 1671			
Weldon	15	on request	665 03 7700 1681	on request	665 03 7700 1671			
Weldon	15	on request	665 03 9000 1681	on request	665 03 9000 1671			
Thread	8	on request	665 03 7500 1381	on request	665 03 7500 1371			
Thread	10	on request	665 03 7600 1381	on request	665 03 7600 1371			
Thread	8	on request	665 03 7500 1481	on request	665 03 7500 1471			
Thread	10	on request	665 03 7600 1481	on request	665 03 7600 1471			
Thread	10	on request	665 03 7600 1A81	on request	665 03 7600 1A71			

Material specifications for TANKO® S such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. TANKO® S made of 2.4610 HC 4 or 2.4602 HC 22 the base plate, spray head and ball bearings are made of 2.4610 (HC 4) or 2.4602 (HC 22).



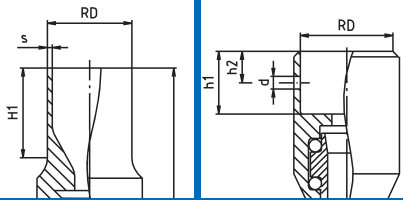
TANKO® S40 90° downwards

Thread



Weldon

Clipon

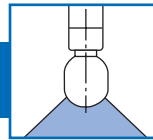


D1 = 33,5 mm (not for Clipon)

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	
Clipon	series A (DIN)	20	23,5	—	39	93	19	10	4,0	286
Clipon	series A (DIN)	25	29,5	—	39	93	19	10	4,0	248
Clipon	series B (ISO)	20	27,5	—	39	93	19	10	4,0	262
Clipon	series B (ISO)	25	34,2	—	39	93	19	10	4,0	257
Clipon	series C (ASME)	20	26,0	—	39	93	19	10	4,0	271
Clipon	series 1 (DIN 11850) and old series	20	22,6	—	39	93	19	10	4,0	288
Clipon	Series SMS	20	25,3	—	39	93	19	10	4,0	275
Weldon	series A (DIN)	15	19,0	1,5	39	108	27	—	—	260
Weldon	series A (DIN)	20	23,0	1,5	39	108	27	—	—	273
Weldon	series A (DIN)	25	29,0	1,5	39	108	29	—	—	294
Weldon	series B (ISO)	20	26,9	1,6	39	108	28	—	—	288
Weldon	series B (ISO)	25	33,7	2,0	39	108	34	—	—	323
Weldon	series SMS	20	25,0	1,2	39	108	28	—	—	279
Weldon	series C (ASME)	15	3/4" (19,05)	1,65	39	108	27	—	—	262
Weldon	series C (ASME)	20	1" (25,4)	1,65	39	108	28	—	—	283
Thread	BSP	15	G 1/2"	—	39	93	19	—	—	303
Thread	BSP	20	G 3/4"	—	39	93	19	—	—	283
Thread	NPT	15	1/2"	—	39	93	19	—	—	303
Thread	NPT	20	3/4"	—	39	93	19	—	—	283
Thread	NPS	20	3/4"	—	39	93	19	—	—	283

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	
Clipon	series A (DIN)	20	23,5	—	39	93	19	10	4,0	286
Clipon	series A (DIN)	25	29,5	—	39	93	19	10	4,0	248
Clipon	series B (ISO)	20	27,5	—	39	93	19	10	4,0	262
Clipon	series B (ISO)	25	34,2	—	39	93	19	10	4,0	257
Clipon	series C (ASME)	20	26,0	—	39	93	19	10	4,0	271
Clipon	series 1 (DIN 11850) and old series	20	22,6	—	39	93	19	10	4,0	288
Clipon	Series SMS	20	25,3	—	39	93	19	10	4,0	275
Weldon	series A (DIN)	15	19,0	1,5	39	108	27	—	—	260
Weldon	series A (DIN)	20	23,0	1,5	39	108	27	—	—	273
Weldon	series A (DIN)	25	29,0	1,5	39	108	29	—	—	294
Weldon	series B (ISO)	20	26,9	1,6	39	108	28	—	—	288
Weldon	series B (ISO)	25	33,7	2,0	39	108	34	—	—	323
Weldon	series SMS	20	25,0	1,2	39	108	28	—	—	279
Weldon	series C (ASME)	15	3/4" (19,05)	1,65	39	108	27	—	—	262
Weldon	series C (ASME)	20	1" (25,4)	1,65	39	108	28	—	—	283
Thread	BSP	15	G 1/2"	—	39	93	19	—	—	303
Thread	BSP	20	G 3/4"	—	39	93	19	—	—	283
Thread	NPT	15	1/2"	—	39	93	19	—	—	303
Thread	NPT	20	3/4"	—	39	93	19	—	—	283
Thread	NPS	20	3/4"	—	39	93	19	—	—	283

Combine the TANKO® S connection NPS-thread with the weldon nipple NPSM.
(page 26-27)



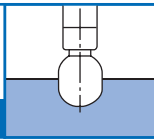
TANKO® S40 90° downwards

		1.4571 (316Ti)		1.4435 (316L)		1.4404 (316L)	
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
Clipon	20	on request	665 04 4200 3251	on request	665 04 4200 3231	on request	665 04 4200 3221
Clipon	25	on request	665 04 4300 3251	on request	665 04 4300 3231	on request	665 04 4300 3221
Clipon	20	on request	665 04 7800 3251	on request	665 04 7800 3231	on request	665 04 7800 3221
Clipon	25	on request	665 04 7900 3251	on request	665 04 7900 3231	on request	665 04 7900 3221
Clipon	20	on request	665 04 9100 3251	on request	665 04 9100 3231	on request	665 04 9100 3221
Clipon	20	on request	665 04 A300 3251	on request	665 04 A300 3231	on request	665 04 A300 3221
Clipon	20	on request	665 04 B200 3251	on request	665 04 B200 3231	on request	665 04 B200 3221
Weldon	15	on request	665 04 4100 3651	on request	665 04 4100 3631	on request	665 04 4100 3621
Weldon	20	on request	665 04 4200 3651	on request	665 04 4200 3631	on request	665 04 4200 3621
Weldon	25	on request	665 04 4300 3651	on request	665 04 4300 3631	on request	665 04 4300 3621
Weldon	20	on request	665 04 7800 3651	on request	665 04 7800 3631	on request	665 04 7800 3621
Weldon	25	on request	665 04 7900 3651	on request	665 04 7900 3631	on request	665 04 7900 3621
Weldon	20	on request	665 04 B200 3651	on request	665 04 B200 3631	on request	665 04 B200 3621
Weldon	15	on request	665 04 9000 3651	on request	665 04 9000 3631	on request	665 04 9000 3621
Weldon	20	on request	665 04 9100 3651	on request	665 04 9100 3631	on request	665 04 9100 3621
Thread	15	on request	665 04 7700 3351	on request	665 04 7700 3331	on request	665 04 7700 3321
Thread	20	on request	665 04 7800 3351	on request	665 04 7800 3331	on request	665 04 7800 3321
Thread	15	on request	665 04 7700 3451	on request	665 04 7700 3431	on request	665 04 7700 3421
Thread	20	on request	665 04 7800 3451	on request	665 04 7800 3431	on request	665 04 7800 3421
Thread	20	on request	665 04 7800 3A51	on request	665 04 7800 3A31	on request	665 04 7800 3A21

TANKO® S40 90° downwards

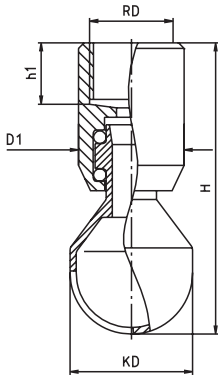
		2.4602 (HC22)		2.4610 (HC4)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.		
Clipon	20	on request	665 04 4200 3281	on request	665 04 4200 3271		
Clipon	25	on request	665 04 4300 3281	on request	665 04 4300 3271		
Clipon	20	on request	665 04 7800 3281	on request	665 04 7800 3271		
Clipon	25	on request	665 04 7900 3281	on request	665 04 7900 3271		
Clipon	20	on request	665 04 9100 3281	on request	665 04 9100 3271		
Clipon	20	on request	665 04 A300 3281	on request	665 04 A300 3271		
Clipon	20	on request	665 04 B200 3281	on request	665 04 B200 3271		
Weldon	15	on request	665 04 4100 3681	on request	665 04 4100 3671		
Weldon	20	on request	665 04 4200 3681	on request	665 04 4200 3671		
Weldon	25	on request	665 04 4300 3681	on request	665 04 4300 3671		
Weldon	20	on request	665 04 7800 3681	on request	665 04 7800 3671		
Weldon	25	on request	665 04 7900 3681	on request	665 04 7900 3671		
Weldon	20	on request	665 04 B200 3681	on request	665 04 B200 3671		
Weldon	15	on request	665 04 9000 3681	on request	665 04 9000 3671		
Weldon	20	on request	665 04 9100 3681	on request	665 04 9100 3671		
Thread	15	on request	665 04 7700 3381	on request	665 04 7700 3371		
Thread	20	on request	665 04 7800 3381	on request	665 04 7800 3371		
Thread	15	on request	665 04 7700 3481	on request	665 04 7700 3471		
Thread	20	on request	665 04 7800 3481	on request	665 04 7800 3471		
Thread	20	on request	665 04 7800 3A81	on request	665 04 7800 3A71		

Material specifications for TANKO® S such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. TANKO® S made of 2.4610 HC 4 or 2.4602 HC 22 the base plate, spray head and ball bearings are made of 2.4610 (HC 4) or 2.4602 (HC 22).



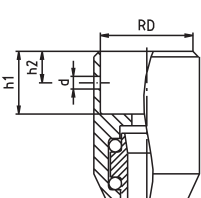
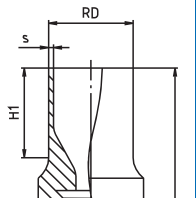
TANKO® S40 180° downwards

Thread



Weldon

Clipon

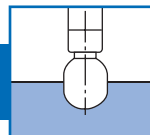


D1 = 33,5 mm (not for Clipon)

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	g
Clipon	series A (DIN)	20	23,5	—	39	93	19	10	4,0	286
Clipon	series A (DIN)	25	29,5	—	39	93	19	10	4,0	248
Clipon	series B (ISO)	20	27,5	—	39	93	19	10	4,0	262
Clipon	series B (ISO)	25	34,2	—	39	93	19	10	4,0	257
Clipon	series C (ASME)	20	26,0	—	39	93	19	10	4,0	271
Clipon	series 1 (DIN 11850) and old series	20	22,6	—	39	93	19	10	4,0	288
Clipon	Series SMS	20	25,3	—	39	93	19	10	4,0	275
Weldon	series A (DIN)	15	19,0	1,5	39	108	27	—	—	260
Weldon	series A (DIN)	20	23,0	1,5	39	108	27	—	—	273
Weldon	series A (DIN)	25	29,0	1,5	39	108	29	—	—	294
Weldon	series B (ISO)	20	26,9	1,6	39	108	28	—	—	288
Weldon	series B (ISO)	25	33,7	2,0	39	108	34	—	—	323
Weldon	series SMS	20	25,0	1,2	39	108	28	—	—	279
Weldon	series C (ASME)	15	3/4" (19,05)	1,65	39	108	27	—	—	262
Weldon	series C (ASME)	20	1" (25,4)	1,65	39	108	28	—	—	283
Thread	BSP	15	G 1/2"	—	39	93	19	—	—	303
Thread	BSP	20	G 3/4"	—	39	93	19	—	—	283
Thread	NPT	15	1/2"	—	39	93	19	—	—	303
Thread	NPT	20	3/4"	—	39	93	19	—	—	283
Thread	NPS	20	3/4"	—	39	93	19	—	—	283

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	g
Clipon	series A (DIN)	20	23,5	—	39	93	19	10	4,0	286
Clipon	series A (DIN)	25	29,5	—	39	93	19	10	4,0	248
Clipon	series B (ISO)	20	27,5	—	39	93	19	10	4,0	262
Clipon	series B (ISO)	25	34,2	—	39	93	19	10	4,0	257
Clipon	series C (ASME)	20	26,0	—	39	93	19	10	4,0	271
Clipon	series 1 (DIN 11850) and old series	20	22,6	—	39	93	19	10	4,0	288
Clipon	Series SMS	20	25,3	—	39	93	19	10	4,0	275
Weldon	series A (DIN)	15	19,0	1,5	39	108	27	—	—	260
Weldon	series A (DIN)	20	23,0	1,5	39	108	27	—	—	273
Weldon	series A (DIN)	25	29,0	1,5	39	108	29	—	—	294
Weldon	series B (ISO)	20	26,9	1,6	39	108	28	—	—	288
Weldon	series B (ISO)	25	33,7	2,0	39	108	34	—	—	323
Weldon	series SMS	20	25,0	1,2	39	108	28	—	—	279
Weldon	series C (ASME)	15	3/4" (19,05)	1,65	39	108	27	—	—	262
Weldon	series C (ASME)	20	1" (25,4)	1,65	39	108	28	—	—	283
Thread	BSP	15	G 1/2"	—	39	93	19	—	—	303
Thread	BSP	20	G 3/4"	—	39	93	19	—	—	283
Thread	NPT	15	1/2"	—	39	93	19	—	—	303
Thread	NPT	20	3/4"	—	39	93	19	—	—	283
Thread	NPS	20	3/4"	—	39	93	19	—	—	283

Combine the TANKO® S connection NPS-thread with the weldon nipple NPSM.
(page 26-27)



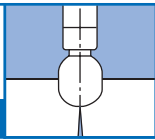
TANKO® S40 180° downwards

		1.4571 (316Ti)		1.4435 (316L)		1.4404 (316L)	
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
Clipon	20	on request	665 04 4200 2251	on request	665 04 4200 2231	on request	665 04 4200 2221
Clipon	25	on request	665 04 4300 2251	on request	665 04 4300 2231	on request	665 04 4300 2221
Clipon	20	on request	665 04 7800 2251	on request	665 04 7800 2231	on request	665 04 7800 2221
Clipon	25	on request	665 04 7900 2251	on request	665 04 7900 2231	on request	665 04 7900 2221
Clipon	20	on request	665 04 9100 2251	on request	665 04 9100 2231	on request	665 04 9100 2221
Clipon	20	on request	665 04 A300 2251	on request	665 04 A300 2231	on request	665 04 A300 2221
Clipon	20	on request	665 04 B200 2251	on request	665 04 B200 2231	on request	665 04 B200 2221
Weldon	15	on request	665 04 4100 2651	on request	665 04 4100 2631	on request	665 04 4100 2621
Weldon	20	on request	665 04 4200 2651	on request	665 04 4200 2631	on request	665 04 4200 2621
Weldon	25	on request	665 04 4300 2651	on request	665 04 4300 2631	on request	665 04 4300 2621
Weldon	20	on request	665 04 7800 2651	on request	665 04 7800 2631	on request	665 04 7800 2621
Weldon	25	on request	665 04 7900 2651	on request	665 04 7900 2631	on request	665 04 7900 2621
Weldon	20	on request	665 04 B200 2651	on request	665 04 B200 2631	on request	665 04 B200 2621
Weldon	15	on request	665 04 9000 2651	on request	665 04 9000 2631	on request	665 04 9000 2621
Weldon	20	on request	665 04 9100 2651	on request	665 04 9100 2631	on request	665 04 9100 2621
Thread	15	on request	665 04 7700 2351	on request	665 04 7700 2331	on request	665 04 7700 2321
Thread	20	on request	665 04 7800 2351	on request	665 04 7800 2331	on request	665 04 7800 2321
Thread	15	on request	665 04 7700 2451	on request	665 04 7700 2431	on request	665 04 7700 2421
Thread	20	on request	665 04 7800 2451	on request	665 04 7800 2431	on request	665 04 7800 2421
Thread	20	on request	665 04 7800 2A51	on request	665 04 7800 2A31	on request	665 04 7800 2A21

TANKO® S40 180° downwards

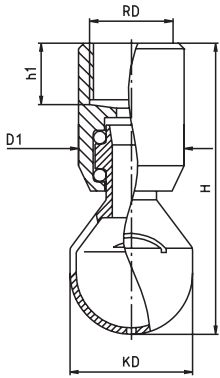
		2.4602 (HC22)		2.4610 (HC4)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.		
Clipon	20	on request	665 04 4200 2281	on request	665 04 4200 2271		
Clipon	25	on request	665 04 4300 2281	on request	665 04 4300 2271		
Clipon	20	on request	665 04 7800 2281	on request	665 04 7800 2271		
Clipon	25	on request	665 04 7900 2281	on request	665 04 7900 2271		
Clipon	20	on request	665 04 9100 2281	on request	665 04 9100 2271		
Clipon	20	on request	665 04 A300 2281	on request	665 04 A300 2271		
Clipon	20	on request	665 04 B200 2281	on request	665 04 B200 2271		
Weldon	15	on request	665 04 4100 2681	on request	665 04 4100 2671		
Weldon	20	on request	665 04 4200 2681	on request	665 04 4200 2671		
Weldon	25	on request	665 04 4300 2681	on request	665 04 4300 2671		
Weldon	20	on request	665 04 7800 2681	on request	665 04 7800 2671		
Weldon	25	on request	665 04 7900 2681	on request	665 04 7900 2671		
Weldon	20	on request	665 04 B200 2681	on request	665 04 B200 2671		
Weldon	15	on request	665 04 9000 2681	on request	665 04 9000 2671		
Weldon	20	on request	665 04 9100 2681	on request	665 04 9100 2671		
Thread	15	on request	665 04 7700 2381	on request	665 04 7700 2371		
Thread	20	on request	665 04 7800 2381	on request	665 04 7800 2371		
Thread	15	on request	665 04 7700 2481	on request	665 04 7700 2471		
Thread	20	on request	665 04 7800 2481	on request	665 04 7800 2471		
Thread	20	on request	665 04 7800 2A81	on request	665 04 7800 2A71		

Material specifications for TANKO® S such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. TANKO® S made of 2.4610 HC 4 or 2.4602 HC 22 the base plate, spray head and ball bearings are made of 2.4610 (HC 4) or 2.4602 (HC 22).



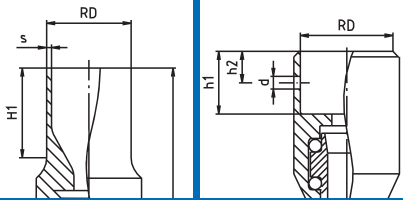
TANKO® S40 180° upwards

Thread



Weldon

Clipon

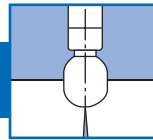


D1 = 33,5 mm (not for Clipon)

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	g
Clipon	series A (DIN)	20	23,5	—	39	93	19	10	4,0	286
Clipon	series A (DIN)	25	29,5	—	39	93	19	10	4,0	248
Clipon	series B (ISO)	20	27,5	—	39	93	19	10	4,0	262
Clipon	series B (ISO)	25	34,2	—	39	93	19	10	4,0	257
Clipon	series C (ASME)	20	26,0	—	39	93	19	10	4,0	271
Clipon	series 1 (DIN 11850) and old series	20	22,6	—	39	93	19	10	4,0	288
Clipon	Series SMS	20	25,3	—	39	93	19	10	4,0	275
Weldon	series A (DIN)	15	19,0	1,5	39	108	27	—	—	260
Weldon	series A (DIN)	20	23,0	1,5	39	108	27	—	—	273
Weldon	series A (DIN)	25	29,0	1,5	39	108	29	—	—	294
Weldon	series B (ISO)	20	26,9	1,6	39	108	28	—	—	288
Weldon	series B (ISO)	25	33,7	2,0	39	108	34	—	—	323
Weldon	series SMS	20	25,0	1,2	39	108	28	—	—	279
Weldon	series C (ASME)	15	3/4" (19,05)	1,65	39	108	27	—	—	262
Weldon	series C (ASME)	20	1" (25,4)	1,65	39	108	28	—	—	283
Thread	BSP	15	G 1/2"	—	39	93	19	—	—	303
Thread	BSP	20	G 3/4"	—	39	93	19	—	—	283
Thread	NPT	15	1/2"	—	39	93	19	—	—	303
Thread	NPT	20	3/4"	—	39	93	19	—	—	283
Thread	NPS	20	3/4"	—	39	93	19	—	—	283

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	g
Clipon	series A (DIN)	20	23,5	—	39	93	19	10	4,0	286
Clipon	series A (DIN)	25	29,5	—	39	93	19	10	4,0	248
Clipon	series B (ISO)	20	27,5	—	39	93	19	10	4,0	262
Clipon	series B (ISO)	25	34,2	—	39	93	19	10	4,0	257
Clipon	series C (ASME)	20	26,0	—	39	93	19	10	4,0	271
Clipon	series 1 (DIN 11850) and old series	20	22,6	—	39	93	19	10	4,0	288
Clipon	Series SMS	20	25,3	—	39	93	19	10	4,0	275
Weldon	series A (DIN)	15	19,0	1,5	39	108	27	—	—	260
Weldon	series A (DIN)	20	23,0	1,5	39	108	27	—	—	273
Weldon	series A (DIN)	25	29,0	1,5	39	108	29	—	—	294
Weldon	series B (ISO)	20	26,9	1,6	39	108	28	—	—	288
Weldon	series B (ISO)	25	33,7	2,0	39	108	34	—	—	323
Weldon	series SMS	20	25,0	1,2	39	108	28	—	—	279
Weldon	series C (ASME)	15	3/4" (19,05)	1,65	39	108	27	—	—	262
Weldon	series C (ASME)	20	1" (25,4)	1,65	39	108	28	—	—	283
Thread	BSP	15	G 1/2"	—	39	93	19	—	—	303
Thread	BSP	20	G 3/4"	—	39	93	19	—	—	283
Thread	NPT	15	1/2"	—	39	93	19	—	—	303
Thread	NPT	20	3/4"	—	39	93	19	—	—	283
Thread	NPS	20	3/4"	—	39	93	19	—	—	283

Combine the TANKO® S connection NPS-thread with the weldon nipple NPSM.
(page 26-27)



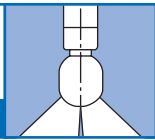
TANKO® S40 180° upwards

		1.4571 (316Ti)		1.4435 (316L)		1.4404 (316L)	
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
Clipon	20	on request	665 04 4200 7251	on request	665 04 4200 7231	on request	665 04 4200 7221
Clipon	25	on request	665 04 4300 7251	on request	665 04 4300 7231	on request	665 04 4300 7221
Clipon	20	on request	665 04 7800 7251	on request	665 04 7800 7231	on request	665 04 7800 7221
Clipon	25	on request	665 04 7900 7251	on request	665 04 7900 7231	on request	665 04 7900 7221
Clipon	20	on request	665 04 9100 7251	on request	665 04 9100 7231	on request	665 04 9100 7221
Clipon	20	on request	665 04 A300 7251	on request	665 04 A300 7231	on request	665 04 A300 7221
Clipon	20	on request	665 04 B200 7251	on request	665 04 B200 7231	on request	665 04 B200 7221
Weldon	15	on request	665 04 4100 7651	on request	665 04 4100 7631	on request	665 04 4100 7621
Weldon	20	on request	665 04 4200 7651	on request	665 04 4200 7631	on request	665 04 4200 7621
Weldon	25	on request	665 04 4300 7651	on request	665 04 4300 7631	on request	665 04 4300 7621
Weldon	20	on request	665 04 7800 7651	on request	665 04 7800 7631	on request	665 04 7800 7621
Weldon	25	on request	665 04 7900 7651	on request	665 04 7900 7631	on request	665 04 7900 7621
Weldon	20	on request	665 04 B200 7651	on request	665 04 B200 7631	on request	665 04 B200 7621
Weldon	15	on request	665 04 9000 7651	on request	665 04 9000 7631	on request	665 04 9000 7621
Weldon	20	on request	665 04 9100 7651	on request	665 04 9100 7631	on request	665 04 9100 7621
Thread	15	on request	665 04 7700 7351	on request	665 04 7700 7331	on request	665 04 7700 7321
Thread	20	on request	665 04 7800 7351	on request	665 04 7800 7331	on request	665 04 7800 7321
Thread	15	on request	665 04 7700 7451	on request	665 04 7700 7431	on request	665 04 7700 7421
Thread	20	on request	665 04 7800 7451	on request	665 04 7800 7431	on request	665 04 7800 7421
Thread	20	on request	665 04 7800 7A51	on request	665 04 7800 7A31	on request	665 04 7800 7A21

TANKO® S40 180° upwards

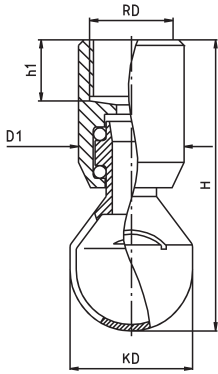
		2.4602 (HC22)		2.4610 (HC4)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.		
Clipon	20	on request	665 04 4200 7281	on request	665 04 4200 7271		
Clipon	25	on request	665 04 4300 7281	on request	665 04 4300 7271		
Clipon	20	on request	665 04 7800 7281	on request	665 04 7800 7271		
Clipon	25	on request	665 04 7900 7281	on request	665 04 7900 7271		
Clipon	20	on request	665 04 9100 7281	on request	665 04 9100 7271		
Clipon	20	on request	665 04 A300 7281	on request	665 04 A300 7271		
Clipon	20	on request	665 04 B200 7281	on request	665 04 B200 7271		
Weldon	15	on request	665 04 4100 7681	on request	665 04 4100 7671		
Weldon	20	on request	665 04 4200 7681	on request	665 04 4200 7671		
Weldon	25	on request	665 04 4300 7681	on request	665 04 4300 7671		
Weldon	20	on request	665 04 7800 7681	on request	665 04 7800 7671		
Weldon	25	on request	665 04 7900 7681	on request	665 04 7900 7671		
Weldon	20	on request	665 04 B200 7681	on request	665 04 B200 7671		
Weldon	15	on request	665 04 9000 7681	on request	665 04 9000 7671		
Weldon	20	on request	665 04 9100 7681	on request	665 04 9100 7671		
Thread	15	on request	665 04 7700 7381	on request	665 04 7700 7371		
Thread	20	on request	665 04 7800 7381	on request	665 04 7800 7371		
Thread	15	on request	665 04 7700 7481	on request	665 04 7700 7471		
Thread	20	on request	665 04 7800 7481	on request	665 04 7800 7471		
Thread	20	on request	665 04 7800 7A81	on request	665 04 7800 7A71		

Material specifications for TANKO® S such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. TANKO® S made of 2.4610 HC 4 or 2.4602 HC 22 the base plate, spray head and ball bearings are made of 2.4610 (HC 4) or 2.4602 (HC 22).



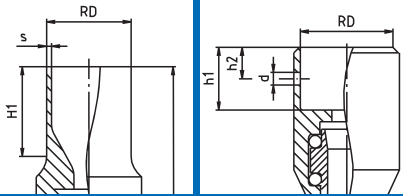
TANKO® S40 270° upwards

Thread



Weldon

Clipon

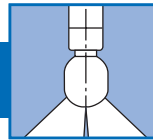


D1 = 33,5 mm (not for Clipon)

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	g
Clipon	series A (DIN)	20	23,5	—	39	93	19	10	4,0	286
Clipon	series A (DIN)	25	29,5	—	39	93	19	10	4,0	248
Clipon	series B (ISO)	20	27,5	—	39	93	19	10	4,0	262
Clipon	series B (ISO)	25	34,2	—	39	93	19	10	4,0	257
Clipon	series C (ASME)	20	26,0	—	39	93	19	10	4,0	271
Clipon	series 1 (DIN 11850) and old series	20	22,6	—	39	93	19	10	4,0	288
Clipon	series SMS	20	25,3	—	39	93	19	10	4,0	275
Weldon	series A (DIN)	15	19,0	1,5	39	108	27	—	—	260
Weldon	series A (DIN)	20	23,0	1,5	39	108	27	—	—	273
Weldon	series A (DIN)	25	29,0	1,5	39	108	29	—	—	294
Weldon	series B (ISO)	20	26,9	1,6	39	108	28	—	—	288
Weldon	series B (ISO)	25	33,7	2,0	39	108	34	—	—	323
Weldon	series SMS	20	25,0	1,2	39	108	28	—	—	279
Weldon	series C (ASME)	15	3/4" (19,05)	1,65	39	108	27	—	—	262
Weldon	series C (ASME)	20	1" (25,4)	1,65	39	108	28	—	—	283
Thread	BSP	15	G 1/2"	—	39	93	19	—	—	303
Thread	BSP	20	G 3/4"	—	39	93	19	—	—	283
Thread	NPT	15	1/2"	—	39	93	19	—	—	303
Thread	NPT	20	3/4"	—	39	93	19	—	—	283
Thread	NPS	20	3/4"	—	39	93	19	—	—	283

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	g
Clipon	series A (DIN)	20	23,5	—	39	93	19	10	4,0	286
Clipon	series A (DIN)	25	29,5	—	39	93	19	10	4,0	248
Clipon	series B (ISO)	20	27,5	—	39	93	19	10	4,0	262
Clipon	series B (ISO)	25	34,2	—	39	93	19	10	4,0	257
Clipon	series C (ASME)	20	26,0	—	39	93	19	10	4,0	271
Clipon	series 1 (DIN 11850) and old series	20	22,6	—	39	93	19	10	4,0	288
Clipon	series SMS	20	25,3	—	39	93	19	10	4,0	275
Weldon	series A (DIN)	15	19,0	1,5	39	108	27	—	—	260
Weldon	series A (DIN)	20	23,0	1,5	39	108	27	—	—	273
Weldon	series A (DIN)	25	29,0	1,5	39	108	29	—	—	294
Weldon	series B (ISO)	20	26,9	1,6	39	108	28	—	—	288
Weldon	series B (ISO)	25	33,7	2,0	39	108	34	—	—	323
Weldon	series SMS	20	25,0	1,2	39	108	28	—	—	279
Weldon	series C (ASME)	15	3/4" (19,05)	1,65	39	108	27	—	—	262
Weldon	series C (ASME)	20	1" (25,4)	1,65	39	108	28	—	—	283
Thread	BSP	15	G 1/2"	—	39	93	19	—	—	303
Thread	BSP	20	G 3/4"	—	39	93	19	—	—	283
Thread	NPT	15	1/2"	—	39	93	19	—	—	303
Thread	NPT	20	3/4"	—	39	93	19	—	—	283
Thread	NPS	20	3/4"	—	39	93	19	—	—	283

Combine the TANKO®-S connection NPS-thread with the weldon nipple NPSM.
(page 26-27)



TANKO® S40 270° upwards

		1.4571 (316Ti)		1.4435 (316L)		1.4404 (316L)	
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
Clipon	20	on request	665 04 4200 6251	on request	665 04 4200 6231	on request	665 04 4200 6221
Clipon	25	on request	665 04 4300 6251	on request	665 04 4300 6231	on request	665 04 4300 6221
Clipon	20	on request	665 04 7800 6251	on request	665 04 7800 6231	on request	665 04 7800 6221
Clipon	25	on request	665 04 7900 6251	on request	665 04 7900 6231	on request	665 04 7900 6221
Clipon	20	on request	665 04 9100 6251	on request	665 04 9100 6231	on request	665 04 9100 6221
Clipon	20	on request	665 04 A300 6251	on request	665 04 A300 6231	on request	665 04 A300 6221
Clipon	20	on request	665 04 B200 6251	on request	665 04 B200 6231	on request	665 04 B200 6221
Weldon	15	on request	665 04 4100 6651	on request	665 04 4100 6631	on request	665 04 4100 6621
Weldon	20	on request	665 04 4200 6651	on request	665 04 4200 6631	on request	665 04 4200 6621
Weldon	25	on request	665 04 4300 6651	on request	665 04 4300 6631	on request	665 04 4300 6621
Weldon	20	on request	665 04 7800 6651	on request	665 04 7800 6631	on request	665 04 7800 6621
Weldon	25	on request	665 04 7900 6651	on request	665 04 7900 6631	on request	665 04 7900 6621
Weldon	20	on request	665 04 B200 6651	on request	665 04 B200 6631	on request	665 04 B200 6621
Weldon	15	on request	665 04 9000 6651	on request	665 04 9000 6631	on request	665 04 9000 6621
Weldon	20	on request	665 04 9100 6651	on request	665 04 9100 6631	on request	665 04 9100 6621
Thread	15	on request	665 04 7700 6351	on request	665 04 7700 6331	on request	665 04 7700 6321
Thread	20	on request	665 04 7800 6351	on request	665 04 7800 6331	on request	665 04 7800 6321
Thread	15	on request	665 04 7700 6451	on request	665 04 7700 6431	on request	665 04 7700 6421
Thread	20	on request	665 04 7800 6451	on request	665 04 7800 6431	on request	665 04 7800 6421
Thread	20	on request	665 04 7800 6A51	on request	665 04 7800 6A31	on request	665 04 7800 6A21

TANKO® S40 270° upwards

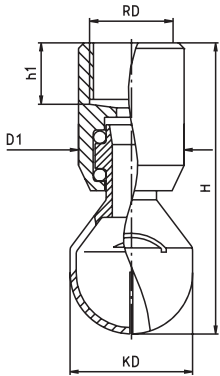
		2.4602 (HC22)		2.4610 (HC4)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.		
Clipon	20	on request	665 04 4200 6281	on request	665 04 4200 6271		
Clipon	25	on request	665 04 4300 6281	on request	665 04 4300 6271		
Clipon	20	on request	665 04 7800 6281	on request	665 04 7800 6271		
Clipon	25	on request	665 04 7900 6281	on request	665 04 7900 6271		
Clipon	20	on request	665 04 9100 6281	on request	665 04 9100 6271		
Clipon	20	on request	665 04 A300 6281	on request	665 04 A300 6271		
Clipon	20	on request	665 04 B200 6281	on request	665 04 B200 6271		
Weldon	15	on request	665 04 4100 6681	on request	665 04 4100 6671		
Weldon	20	on request	665 04 4200 6681	on request	665 04 4200 6671		
Weldon	25	on request	665 04 4300 6681	on request	665 04 4300 6671		
Weldon	20	on request	665 04 7800 6681	on request	665 04 7800 6671		
Weldon	25	on request	665 04 7900 6681	on request	665 04 7900 6671		
Weldon	20	on request	665 04 B200 6681	on request	665 04 B200 6671		
Weldon	15	on request	665 04 9000 6681	on request	665 04 9000 6671		
Weldon	20	on request	665 04 9100 6681	on request	665 04 9100 6671		
Thread	15	on request	665 04 7700 6381	on request	665 04 7700 6371		
Thread	20	on request	665 04 7800 6381	on request	665 04 7800 6371		
Thread	15	on request	665 04 7700 6481	on request	665 04 7700 6471		
Thread	20	on request	665 04 7800 6481	on request	665 04 7800 6471		
Thread	20	on request	665 04 7800 6A81	on request	665 04 7800 6A71		

Material specifications for TANKO® S such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. TANKO® S made of 2.4610 HC 4 or 2.4602 HC 22 the base plate, spray head and ball bearings are made of 2.4610 (HC 4) or 2.4602 (HC 22).



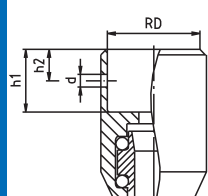
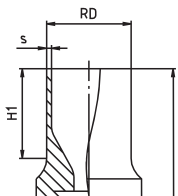
TANKO® S40 360°

Thread



Weldon

Clipon



D1 = 33,5 mm (not for Clipon)

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	
Clipon	series A (DIN)	20	23,5	—	39	93	19	10	4,0	286
Clipon	series A (DIN)	25	29,5	—	39	93	19	10	4,0	248
Clipon	series B (ISO)	20	27,5	—	39	93	19	10	4,0	262
Clipon	series B (ISO)	25	34,2	—	39	93	19	10	4,0	257
Clipon	series C (ASME)	20	26,0	—	39	93	19	10	4,0	271
Clipon	series 1 (DIN 11850) and old series	20	22,6	—	39	93	19	10	4,0	288
Clipon	series SMS	20	25,3	—	39	93	19	10	4,0	275
Weldon	series A (DIN)	15	19,0	1,5	39	108	27	—	—	260
Weldon	series A (DIN)	20	23,0	1,5	39	108	27	—	—	273
Weldon	series A (DIN)	25	29,0	1,5	39	108	29	—	—	294
Weldon	series B (ISO)	20	26,9	1,6	39	108	28	—	—	288
Weldon	series B (ISO)	25	33,7	2,0	39	108	34	—	—	323
Weldon	series SMS	20	25,0	1,2	39	108	28	—	—	279
Weldon	series C (ASME)	15	3/4" (19,05)	1,65	39	108	27	—	—	262
Weldon	series C (ASME)	20	1" (25,4)	1,65	39	108	28	—	—	283
Thread	BSP	15	G 1/2"	—	39	93	19	—	—	303
Thread	BSP	20	G 3/4"	—	39	93	19	—	—	283
Thread	NPT	15	1/2"	—	39	93	19	—	—	303
Thread	NPT	20	3/4"	—	39	93	19	—	—	283
Thread	NPS	20	3/4"	—	39	93	19	—	—	283

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	
Clipon	series A (DIN)	20	23,5	—	39	93	19	10	4,0	286
Clipon	series A (DIN)	25	29,5	—	39	93	19	10	4,0	248
Clipon	series B (ISO)	20	27,5	—	39	93	19	10	4,0	262
Clipon	series B (ISO)	25	34,2	—	39	93	19	10	4,0	257
Clipon	series C (ASME)	20	26,0	—	39	93	19	10	4,0	271
Clipon	series 1 (DIN 11850) and old series	20	22,6	—	39	93	19	10	4,0	288
Clipon	series SMS	20	25,3	—	39	93	19	10	4,0	275
Weldon	series A (DIN)	15	19,0	1,5	39	108	27	—	—	260
Weldon	series A (DIN)	20	23,0	1,5	39	108	27	—	—	273
Weldon	series A (DIN)	25	29,0	1,5	39	108	29	—	—	294
Weldon	series B (ISO)	20	26,9	1,6	39	108	28	—	—	288
Weldon	series B (ISO)	25	33,7	2,0	39	108	34	—	—	323
Weldon	series SMS	20	25,0	1,2	39	108	28	—	—	279
Weldon	series C (ASME)	15	3/4" (19,05)	1,65	39	108	27	—	—	262
Weldon	series C (ASME)	20	1" (25,4)	1,65	39	108	28	—	—	283
Thread	BSP	15	G 1/2"	—	39	93	19	—	—	303
Thread	BSP	20	G 3/4"	—	39	93	19	—	—	283
Thread	NPT	15	1/2"	—	39	93	19	—	—	303
Thread	NPT	20	3/4"	—	39	93	19	—	—	283
Thread	NPS	20	3/4"	—	39	93	19	—	—	283

Combine the TANKO®-S connection NPS-thread with the weldon nipple NPSM.
(page 26-27)



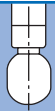
TANKO® S40 360°

		1.4571 (316Ti)		1.4435 (316L)		1.4404 (316L)	
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
Clipon	20	on request	665 04 4200 1251	on request	665 04 4200 1231	on request	665 04 4200 1221
Clipon	25	on request	665 04 4300 1251	on request	665 04 4300 1231	on request	665 04 4300 1221
Clipon	20	on request	665 04 7800 1251	on request	665 04 7800 1231	on request	665 04 7800 1221
Clipon	25	on request	665 04 7900 1251	on request	665 04 7900 1231	on request	665 04 7900 1221
Clipon	20	on request	665 04 9100 1251	on request	665 04 9100 1231	on request	665 04 9100 1221
Clipon	20	on request	665 04 A300 1251	on request	665 04 A300 1231	on request	665 04 A300 1221
Clipon	20	on request	665 04 B200 1251	on request	665 04 B200 1231	on request	665 04 B200 1221
Weldon	15	on request	665 04 4100 1651	on request	665 04 4100 1631	on request	665 04 4100 1621
Weldon	20	on request	665 04 4200 1651	on request	665 04 4200 1631	on request	665 04 4200 1621
Weldon	25	on request	665 04 4300 1651	on request	665 04 4300 1631	on request	665 04 4300 1621
Weldon	20	on request	665 04 7800 1651	on request	665 04 7800 1631	on request	665 04 7800 1621
Weldon	25	on request	665 04 7900 1651	on request	665 04 7900 1631	on request	665 04 7900 1621
Weldon	20	on request	665 04 B200 1651	on request	665 04 B200 1631	on request	665 04 B200 1621
Weldon	15	on request	665 04 9000 1651	on request	665 04 9000 1631	on request	665 04 9000 1621
Weldon	20	on request	665 04 9100 1651	on request	665 04 9100 1631	on request	665 04 9100 1621
Thread	15	on request	665 04 7700 1351	on request	665 04 7700 1331	on request	665 04 7700 1321
Thread	20	on request	665 04 7800 1351	on request	665 04 7800 1331	on request	665 04 7800 1321
Thread	15	on request	665 04 7700 1451	on request	665 04 7700 1431	on request	665 04 7700 1421
Thread	20	on request	665 04 7800 1451	on request	665 04 7800 1431	on request	665 04 7800 1421
Thread	20	on request	665 04 7800 1A51	on request	665 04 7800 1A31	on request	665 04 7800 1A21

TANKO® S40 360°

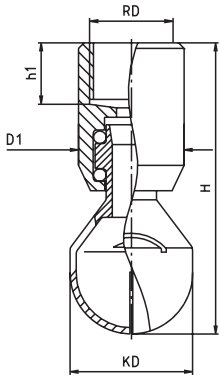
		2.4602 (HC22)		2.4610 (HC4)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.		
Clipon	20	on request	665 04 4200 1281	on request	665 04 4200 1271		
Clipon	25	on request	665 04 4300 1281	on request	665 04 4300 1271		
Clipon	20	on request	665 04 7800 1281	on request	665 04 7800 1271		
Clipon	25	on request	665 04 7900 1281	on request	665 04 7900 1271		
Clipon	20	on request	665 04 9100 1281	on request	665 04 9100 1271		
Clipon	20	on request	665 04 A300 1281	on request	665 04 A300 1271		
Clipon	20	on request	665 04 B200 1281	on request	665 04 B200 1271		
Weldon	15	on request	665 04 4100 1681	on request	665 04 4100 1671		
Weldon	20	on request	665 04 4200 1681	on request	665 04 4200 1671		
Weldon	25	on request	665 04 4300 1681	on request	665 04 4300 1671		
Weldon	20	on request	665 04 7800 1681	on request	665 04 7800 1671		
Weldon	25	on request	665 04 7900 1681	on request	665 04 7900 1671		
Weldon	20	on request	665 04 B200 1681	on request	665 04 B200 1671		
Weldon	15	on request	665 04 9000 1681	on request	665 04 9000 1671		
Weldon	20	on request	665 04 9100 1681	on request	665 04 9100 1671		
Thread	15	on request	665 04 7700 1381	on request	665 04 7700 1371		
Thread	20	on request	665 04 7800 1381	on request	665 04 7800 1371		
Thread	15	on request	665 04 7700 1481	on request	665 04 7700 1471		
Thread	20	on request	665 04 7800 1481	on request	665 04 7800 1471		
Thread	20	on request	665 04 7800 1A81	on request	665 04 7800 1A71		

Material specifications for TANKO® S such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. TANKO® S made of 2.4610 HC 4 or 2.4602 HC 22 the base plate, spray head and ball bearings are made of 2.4610 (HC 4) or 2.4602 (HC 22).



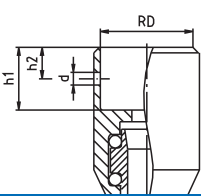
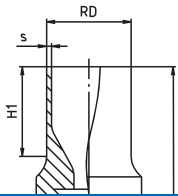
TANKO® S40 360° HF special slit width HF

Thread



Weldon

Clipon



D1 = 33,5 mm (not for Clipon)

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	
Clipon	series A (DIN)	20	23,5	—	39	93	19	10	4,0	281
Clipon	series A (DIN)	25	29,5	—	39	93	19	10	4,0	243
Clipon	series B (ISO)	20	27,5	—	39	93	19	10	4,0	257
Clipon	series B (ISO)	25	34,2	—	39	93	19	10	4,0	252
Clipon	series C (ASME)	20	26,0	—	39	93	19	10	4,0	266
Clipon	series 1 (DIN 11850) and old series	20	22,6	—	39	93	19	10	4,0	283
Clipon	series SMS	20	25,3	—	39	93	19	10	4,0	270
Weldon	series A (DIN)	15	19,0	1,5	39	108	27	—	—	256
Weldon	series A (DIN)	20	23,0	1,5	39	108	27	—	—	268
Weldon	series A (DIN)	25	29,0	1,5	39	108	29	—	—	289
Weldon	series B (ISO)	20	26,9	1,6	39	108	28	—	—	282
Weldon	series B (ISO)	25	33,7	2,0	39	108	34	—	—	315
Weldon	series C (ASME)	15	3/4" (19,05)	1,65	39	108	28	—	—	260
Weldon	series C (ASME)	20	1" (25,4)	1,65	39	108	28	—	—	277
Weldon	series SMS	20	25,0	1,2	39	108	28	—	—	277
Thread	BSP	15	G 1/2"	—	39	93	19	—	—	303
Thread	BSP	20	G 3/4"	—	39	93	19	—	—	283
Thread	NPT	15	1/2"	—	39	93	19	—	—	303
Thread	NPT	20	3/4"	—	39	93	19	—	—	283
Thread	NPS	20	3/4"	—	39	93	19	—	—	283

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	
Clipon	series A (DIN)	20	23,5	—	39	93	19	10	4,0	281
Clipon	series A (DIN)	25	29,5	—	39	93	19	10	4,0	243
Clipon	series B (ISO)	20	27,5	—	39	93	19	10	4,0	257
Clipon	series B (ISO)	25	34,2	—	39	93	19	10	4,0	252
Clipon	series C (ASME)	20	26,0	—	39	93	19	10	4,0	266
Clipon	series 1 (DIN 11850) and old series	20	22,6	—	39	93	19	10	4,0	283
Clipon	series SMS	20	25,3	—	39	93	19	10	4,0	270
Weldon	series A (DIN)	15	19,0	1,5	39	108	27	—	—	256
Weldon	series A (DIN)	20	23,0	1,5	39	108	27	—	—	268
Weldon	series A (DIN)	25	29,0	1,5	39	108	29	—	—	289
Weldon	series B (ISO)	20	26,9	1,6	39	108	28	—	—	282
Weldon	series B (ISO)	25	33,7	2,0	39	108	34	—	—	315
Weldon	series C (ASME)	15	3/4" (19,05)	1,65	39	108	28	—	—	260
Weldon	series C (ASME)	20	1" (25,4)	1,65	39	108	28	—	—	277
Weldon	series SMS	20	25,0	1,2	39	108	28	—	—	277
Thread	BSP	15	G 1/2"	—	39	93	19	—	—	303
Thread	BSP	20	G 3/4"	—	39	93	19	—	—	283
Thread	NPT	15	1/2"	—	39	93	19	—	—	303
Thread	NPT	20	3/4"	—	39	93	19	—	—	283
Thread	NPS	20	3/4"	—	39	93	19	—	—	283

Combine the TANKO®-S connection NPS-thread with the weldon nipple NPSM.
(page 26-27)



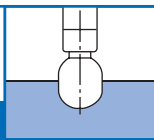
TANKO® S40 360° special slit width HF

		1.4571 (316Ti)		1.4435 (316L)		1.4404 (316L)	
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
Clipon	20	on request	665 14 4200 1251	on request	665 14 4200 1231	on request	665 14 4200 1221
Clipon	25	on request	665 14 4300 1251	on request	665 14 4300 1231	on request	665 14 4300 1221
Clipon	20	on request	665 14 7800 1251	on request	665 14 7800 1231	on request	665 14 7800 1221
Clipon	25	on request	665 14 7900 1251	on request	665 14 7900 1231	on request	665 14 7900 1221
Clipon	20	on request	665 14 9100 1251	on request	665 14 9100 1231	on request	665 14 9100 1221
Clipon	20	on request	665 14 A300 1251	on request	665 14 A300 1231	on request	665 14 A300 1221
Clipon	20	on request	665 14 B200 1251	on request	665 14 B200 1231	on request	665 14 B200 1221
Weldon	15	on request	665 14 4100 1651	on request	665 14 4100 1631	on request	665 14 4100 1621
Weldon	20	on request	665 14 4200 1651	on request	665 14 4200 1631	on request	665 14 4200 1621
Weldon	25	on request	665 14 4300 1651	on request	665 14 4300 1631	on request	665 14 4300 1621
Weldon	20	on request	665 14 7800 1651	on request	665 14 7800 1631	on request	665 14 7800 1621
Weldon	25	on request	665 14 7900 1651	on request	665 14 7900 1631	on request	665 14 7900 1621
Weldon	15	on request	665 14 9000 1651	on request	665 14 9000 1631	on request	665 14 9000 1621
Weldon	20	on request	665 14 9100 1651	on request	665 14 9100 1631	on request	665 14 9100 1621
Weldon	20	on request	665 14 B200 1651	on request	665 14 B200 1631	on request	665 14 B200 1621
Thread	15	on request	665 14 7700 1351	on request	665 14 7700 1331	on request	665 14 7700 1321
Thread	20	on request	665 14 7800 1351	on request	665 14 7800 1331	on request	665 14 7800 1321
Thread	15	on request	665 14 7700 1451	on request	665 14 7700 1431	on request	665 14 7700 1421
Thread	20	on request	665 14 7800 1451	on request	665 14 7800 1431	on request	665 14 7800 1421
Thread	20	on request	665 14 7800 1A51	on request	665 14 7800 1A31	on request	665 14 7800 1A21

TANKO® S40 360° special slit width HF

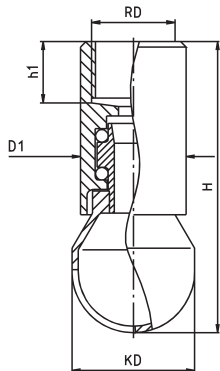
		2.4602 (HC22)		2.4610 (HC4)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.		
Clipon	20	on request	665 14 4200 1281	on request	665 14 4200 1271		
Clipon	25	on request	665 14 4300 1281	on request	665 14 4300 1271		
Clipon	20	on request	665 14 7800 1281	on request	665 14 7800 1271		
Clipon	25	on request	665 14 7900 1281	on request	665 14 7900 1271		
Clipon	20	on request	665 14 9100 1281	on request	665 14 9100 1271		
Clipon	20	on request	665 14 A300 1281	on request	665 14 A300 1271		
Clipon	20	on request	665 14 B200 1281	on request	665 14 B200 1271		
Weldon	15	on request	665 14 4100 1681	on request	665 14 4100 1671		
Weldon	20	on request	665 14 4200 1681	on request	665 14 4200 1671		
Weldon	25	on request	665 14 4300 1681	on request	665 14 4300 1671		
Weldon	20	on request	665 14 7800 1681	on request	665 14 7800 1671		
Weldon	25	on request	665 14 7900 1681	on request	665 14 7900 1671		
Weldon	15	on request	665 14 9000 1681	on request	665 14 9000 1671		
Weldon	20	on request	665 14 9100 1681	on request	665 14 9100 1671		
Weldon	20	on request	665 14 B200 1681	on request	665 14 B200 1671		
Thread	15	on request	665 14 7700 1381	on request	665 14 7700 1371		
Thread	20	on request	665 14 7800 1381	on request	665 14 7800 1371		
Thread	15	on request	665 14 7700 1481	on request	665 14 7700 1471		
Thread	20	on request	665 14 7800 1481	on request	665 14 7800 1471		
Thread	20	on request	665 14 7800 1A81	on request	665 14 7800 1A71		

Material specifications for TANKO® S such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. TANKO® S made of 2.4610 HC 4 or 2.4602 HC 22 the base plate, spray head and ball bearings are made of 2.4610 (HC 4) or 2.4602 (HC 22).



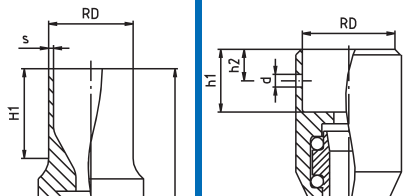
TANKO® S50 180° downwards

Thread



Weldon

Clipon

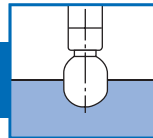


D1 = 59,5 mm (not for Clipon)

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	g
Clipon	series A (DIN)	40	41,5	—	69,5	172	35,2	24,2	5,5	1650
Clipon	series A (DIN)	50	54,3	—	69,5	158	19	10	5,5	1650
Clipon	series B (ISO)	40	49,6	—	69,5	158	19	10	5,5	1650
Clipon	series C (ASME)	40	52,0	—	69,5	158	19	10	5,5	1650
Clipon	series SMS	32	39,0	—	69,5	158	19	10	5,5	1650
Clipon	series SMS	40	52,0	—	69,5	158	19	10	5,5	1650
Weldon	series A (DIN)	50	53,0	1,5	69,5	180	34	—	—	1780
Weldon	series A (DIN)	40	41,0	1,5	69,5	180	27	—	—	1780
Weldon	series B (ISO)	40	48,3	2,0	69,5	180	31	—	—	1780
Weldon	series B (ISO)	50	60,3	2,0	69,5	180	31	—	—	1780
Weldon	series C (ASME)	40	2" (50,8)	1,65	69,5	180	32	—	—	1780
Weldon	series 3 (DIN 11850)	50	54,0	2,0	69,5	180	34	—	—	1780
Weldon	series SMS	32	38,0	1,2	69,5	180	27	—	—	1780
Weldon	series SMS	40	51,0	1,2	69,5	180	32	—	—	1780
Thread	BSP	32	G 1 1/4"	—	69,5	158	21	—	—	1650
Thread	NPT	32	1 1/4"	—	69,5	158	21	—	—	1650
Thread	BSP	40	G 1 1/2"	—	69,5	158	21	—	—	1650
Thread	NPT	40	1 1/2"	—	69,5	158	21	—	—	1650
Thread	NPS	40	1 1/2"	—	69,5	158	21	—	—	1650

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	g
Clipon	series A (DIN)	40	41,5	—	69,5	172	35,2	24,2	5,5	1650
Clipon	series A (DIN)	50	54,3	—	69,5	158	19	10	5,5	1650
Clipon	series B (ISO)	40	49,6	—	69,5	158	19	10	5,5	1650
Clipon	series C (ASME)	40	52,0	—	69,5	158	19	10	5,5	1650
Clipon	series SMS	32	39,0	—	69,5	158	19	10	5,5	1650
Clipon	series SMS	40	52,0	—	69,5	158	19	10	5,5	1650
Weldon	series A (DIN)	50	53,0	1,5	69,5	180	34	—	—	1780
Weldon	series A (DIN)	40	41,0	1,5	69,5	180	27	—	—	1780
Weldon	series B (ISO)	40	48,3	2,0	69,5	180	31	—	—	1780
Weldon	series B (ISO)	50	60,3	2,0	69,5	180	31	—	—	1780
Weldon	series C (ASME)	40	2" (50,8)	1,65	69,5	180	32	—	—	1780
Weldon	series 3 (DIN 11850)	50	54,0	2,0	69,5	180	34	—	—	1780
Weldon	series SMS	32	38,0	1,2	69,5	180	27	—	—	1780
Weldon	series SMS	40	51,0	1,2	69,5	180	32	—	—	1780
Thread	BSP	32	G 1 1/4"	—	69,5	158	21	—	—	1650
Thread	NPT	32	1 1/4"	—	69,5	158	21	—	—	1650
Thread	BSP	40	G 1 1/2"	—	69,5	158	21	—	—	1650
Thread	NPT	40	1 1/2"	—	69,5	158	21	—	—	1650
Thread	NPS	40	1 1/2"	—	69,5	158	21	—	—	1650

Combine the TANKO®-S connection NPS-thread with the weldon nipple NPSM.
(page 26-27)



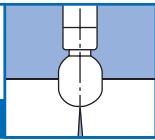
TANKO® S50 180° downwards

		1.4571 (316Ti)		1.4435 (316L)		1.4404 (316L)	
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
Clipon	40	on request	665 05 4500 2250	on request	665 05 4500 2230	on request	665 05 4500 2220
Clipon	50	on request	665 05 4600 2250	on request	665 05 4600 2230	on request	665 05 4600 2220
Clipon	40	on request	665 05 8100 2250	on request	665 05 8100 2230	on request	665 05 8100 2220
Clipon	40	on request	665 05 9300 2250	on request	665 05 9300 2230	on request	665 05 9300 2220
Clipon	32	on request	665 05 B300 2250	on request	665 05 B300 2230	on request	665 05 B300 2220
Clipon	40	on request	665 05 B400 2250	on request	665 05 B400 2230	on request	665 05 B400 2220
Weldon	50	on request	665 05 4600 2650	on request	665 05 4600 2630	on request	665 05 4600 2620
Weldon	40	on request	665 05 4500 2650	on request	665 05 4500 2630	on request	665 05 4500 2620
Weldon	40	on request	665 05 8100 2650	on request	665 05 8100 2630	on request	665 05 8100 2620
Weldon	50	on request	665 05 8200 2650	on request	665 05 8200 2630	on request	665 05 8200 2620
Weldon	40	on request	665 05 9300 2650	on request	665 05 9300 2630	on request	665 05 9300 2620
Weldon	50	on request	665 05 3600 2650	on request	665 05 3600 2630	on request	665 05 3600 2620
Weldon	32	on request	665 05 B300 2650	on request	665 05 B300 2630	on request	665 05 B300 2620
Weldon	40	on request	665 05 B400 2650	on request	665 05 B400 2630	on request	665 05 B400 2620
Thread	32	on request	665 05 8000 2350	on request	665 05 8000 2330	on request	665 05 8000 2320
Thread	32	on request	665 05 8000 2450	on request	665 05 8000 2430	on request	665 05 8000 2420
Thread	40	on request	665 05 8100 2350	on request	665 05 8100 2330	on request	665 05 8100 2320
Thread	40	on request	665 05 8100 2450	on request	665 05 8100 2430	on request	665 05 8100 2420
Thread	40	on request	665 05 8100 2A50	on request	665 05 8100 2A30	on request	665 05 8100 2A20

TANKO® S50 180° downwards

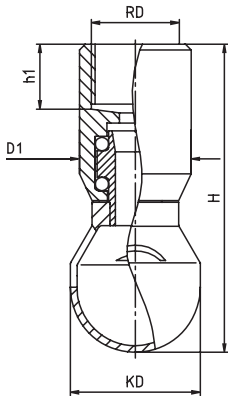
		2.4602 (HC22)		2.4610 (HC4)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.		
Clipon	40	on request	665 05 4500 2280	on request	665 05 4500 2270		
Clipon	50	on request	665 05 4600 2280	on request	665 05 4600 2270		
Clipon	40	on request	665 05 8100 2280	on request	665 05 8100 2270		
Clipon	40	on request	665 05 9300 2280	on request	665 05 9300 2270		
Clipon	32	on request	665 05 B300 2280	on request	665 05 B300 2270		
Clipon	40	on request	665 05 B400 2280	on request	665 05 B400 2270		
Weldon	50	on request	665 05 4600 2680	on request	665 05 4600 2670		
Weldon	40	on request	665 05 4500 2680	on request	665 05 4500 2670		
Weldon	40	on request	665 05 8100 2680	on request	665 05 8100 2670		
Weldon	50	on request	665 05 8200 2680	on request	665 05 8200 2670		
Weldon	40	on request	665 05 9300 2680	on request	665 05 9300 2670		
Weldon	50	on request	665 05 3600 2680	on request	665 05 3600 2670		
Weldon	32	on request	665 05 B300 2680	on request	665 05 B300 2670		
Weldon	40	on request	665 05 B400 2680	on request	665 05 B400 2670		
Thread	32	on request	665 05 8000 2380	on request	665 05 8000 2370		
Thread	32	on request	665 05 8000 2480	on request	665 05 8000 2470		
Thread	40	on request	665 05 8100 2380	on request	665 05 8100 2370		
Thread	40	on request	665 05 8100 2480	on request	665 05 8100 2470		
Thread	40	on request	665 05 8100 2A80	on request	665 05 8100 2A70		

Material specifications for TANKO® S such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. TANKO® S made of 2.4610 HC 4 or 2.4602 HC 22 the base plate, spray head and ball bearings are made of 2.4610 (HC 4) or 2.4602 (HC 22).



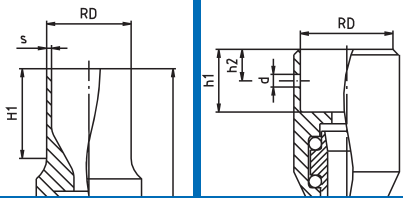
TANKO® S50 180° upwards

Thread



Weldon

Clipon

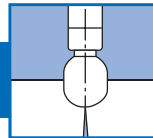


D1 = 59,5 mm (not for Clipon)

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	g
Clipon	series A (DIN)	40	41,5	—	69,5	172	35,2	24,2	5,5	1650
Clipon	series A (DIN)	50	54,3	—	69,5	158	19	10	5,5	1650
Clipon	series B (ISO)	40	49,6	—	69,5	158	19	10	5,5	1650
Clipon	series C (ASME)	40	52,0	—	69,5	158	19	10	5,5	1650
Clipon	series SMS	32	39,0	—	69,5	158	19	10	5,5	1650
Clipon	series SMS	40	52,0	—	69,5	158	19	10	5,5	1650
Weldon	series A (DIN)	50	53,0	1,5	69,5	180	34	—	—	1780
Weldon	series A (DIN)	40	41,0	1,5	69,5	180	27	—	—	1780
Weldon	series B (ISO)	40	48,3	2,0	69,5	180	31	—	—	1780
Weldon	series B (ISO)	50	60,3	2,0	69,5	180	31	—	—	1780
Weldon	series C (ASME)	40	2" (50,8)	1,65	69,5	180	32	—	—	1780
Weldon	series 3 (DIN 11850)	50	54,0	2,0	69,5	180	34	—	—	1780
Weldon	series SMS	32	38,0	1,2	69,5	180	27	—	—	1780
Weldon	series SMS	40	51,0	1,2	69,5	180	32	—	—	1780
Thread	BSP	32	G 1 1/4"	—	69,5	158	21	—	—	1650
Thread	NPT	32	1 1/4"	—	69,5	158	21	—	—	1650
Thread	BSP	40	G 1 1/2"	—	69,5	158	21	—	—	1650
Thread	NPT	40	1 1/2"	—	69,5	158	21	—	—	1650
Thread	NPS	40	1 1/2"	—	69,5	158	21	—	—	1650

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	g
Clipon	series A (DIN)	40	41,5	—	69,5	172	35,2	24,2	5,5	1650
Clipon	series A (DIN)	50	54,3	—	69,5	158	19	10	5,5	1650
Clipon	series B (ISO)	40	49,6	—	69,5	158	19	10	5,5	1650
Clipon	series C (ASME)	40	52,0	—	69,5	158	19	10	5,5	1650
Clipon	series SMS	32	39,0	—	69,5	158	19	10	5,5	1650
Clipon	series SMS	40	52,0	—	69,5	158	19	10	5,5	1650
Weldon	series A (DIN)	50	53,0	1,5	69,5	180	34	—	—	1780
Weldon	series A (DIN)	40	41,0	1,5	69,5	180	27	—	—	1780
Weldon	series B (ISO)	40	48,3	2,0	69,5	180	31	—	—	1780
Weldon	series B (ISO)	50	60,3	2,0	69,5	180	31	—	—	1780
Weldon	series C (ASME)	40	2" (50,8)	1,65	69,5	180	32	—	—	1780
Weldon	series 3 (DIN 11850)	50	54,0	2,0	69,5	180	34	—	—	1780
Weldon	series SMS	32	38,0	1,2	69,5	180	27	—	—	1780
Weldon	series SMS	40	51,0	1,2	69,5	180	32	—	—	1780
Thread	BSP	32	G 1 1/4"	—	69,5	158	21	—	—	1650
Thread	NPT	32	1 1/4"	—	69,5	158	21	—	—	1650
Thread	BSP	40	G 1 1/2"	—	69,5	158	21	—	—	1650
Thread	NPT	40	1 1/2"	—	69,5	158	21	—	—	1650
Thread	NPS	40	1 1/2"	—	69,5	158	21	—	—	1650

Combine the TANKO®-S connection NPS-thread with the weldon nipple NPSM.
(page 26-27)



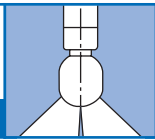
TANKO® S50 180° upwards

		1.4571 (316Ti)		1.4435 (316L)		1.4404 (316L)	
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
Clipon	40	on request	665 05 4500 7250	on request	665 05 4500 7230	on request	665 05 4500 7220
Clipon	50	on request	665 05 4600 7250	on request	665 05 4600 7230	on request	665 05 4600 7220
Clipon	40	on request	665 05 8100 7250	on request	665 05 8100 7230	on request	665 05 8100 7220
Clipon	40	on request	665 05 9300 7250	on request	665 05 9300 7230	on request	665 05 9300 7220
Clipon	32	on request	665 05 B300 7250	on request	665 05 B300 7230	on request	665 05 B300 7220
Clipon	40	on request	665 05 B400 7250	on request	665 05 B400 7230	on request	665 05 B400 7220
Weldon	50	on request	665 05 4600 7650	on request	665 05 4600 7630	on request	665 05 4600 7620
Weldon	40	on request	665 05 4500 7650	on request	665 05 4500 7630	on request	665 05 4500 7620
Weldon	40	on request	665 05 8100 7650	on request	665 05 8100 7630	on request	665 05 8100 7620
Weldon	50	on request	665 05 8200 7650	on request	665 05 8200 7630	on request	665 05 8200 7620
Weldon	40	on request	665 05 9300 7650	on request	665 05 9300 7630	on request	665 05 9300 7620
Weldon	50	on request	665 05 3600 7650	on request	665 05 3600 7630	on request	665 05 3600 7620
Weldon	32	on request	665 05 B300 7650	on request	665 05 B300 7630	on request	665 05 B300 7620
Weldon	40	on request	665 05 B400 7650	on request	665 05 B400 7630	on request	665 05 B400 7620
Thread	32	on request	665 05 8000 7350	on request	665 05 8000 7330	on request	665 05 8000 7320
Thread	32	on request	665 05 8000 7450	on request	665 05 8000 7430	on request	665 05 8000 7420
Thread	40	on request	665 05 8100 7350	on request	665 05 8100 7330	on request	665 05 8100 7320
Thread	40	on request	665 05 8100 7450	on request	665 05 8100 7430	on request	665 05 8100 7420
Thread	40	on request	665 05 8100 7A50	on request	665 05 8100 7A30	on request	665 05 8100 7A20

TANKO® S50 180° upwards

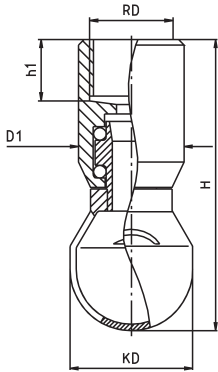
		2.4602 (HC22)		2.4610 (HC4)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.		
Clipon	40	on request	665 05 4500 7280	on request	665 05 4500 7270		
Clipon	50	on request	665 05 4600 7280	on request	665 05 4600 7270		
Clipon	40	on request	665 05 8100 7280	on request	665 05 8100 7270		
Clipon	40	on request	665 05 9300 7280	on request	665 05 9300 7270		
Clipon	32	on request	665 05 B300 7280	on request	665 05 B300 7270		
Clipon	40	on request	665 05 B400 7280	on request	665 05 B400 7270		
Weldon	50	on request	665 05 4600 7680	on request	665 05 4600 7670		
Weldon	40	on request	665 05 4500 7680	on request	665 05 4500 7670		
Weldon	40	on request	665 05 8100 7680	on request	665 05 8100 7670		
Weldon	50	on request	665 05 8200 7680	on request	665 05 8200 7670		
Weldon	40	on request	665 05 9300 7680	on request	665 05 9300 7670		
Weldon	50	on request	665 05 3600 7680	on request	665 05 3600 7670		
Weldon	32	on request	665 05 B300 7680	on request	665 05 B300 7670		
Weldon	40	on request	665 05 B400 7680	on request	665 05 B400 7670		
Thread	32	on request	665 05 8000 7380	on request	665 05 8000 7370		
Thread	32	on request	665 05 8000 7480	on request	665 05 8000 7470		
Thread	40	on request	665 05 8100 7380	on request	665 05 8100 7370		
Thread	40	on request	665 05 8100 7480	on request	665 05 8100 7470		
Thread	40	on request	665 05 8100 7A80	on request	665 05 8100 7A70		

Material specifications for TANKO® S such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. TANKO® S made of 2.4610 HC 4 or 2.4602 HC 22 the base plate, spray head and ball bearings are made of 2.4610 (HC 4) or 2.4602 (HC 22).



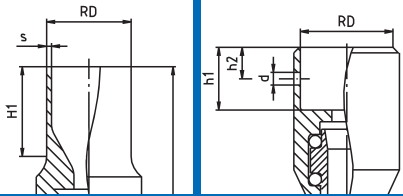
TANKO® S50 270° upwards

Thread



Weldon

Clipon

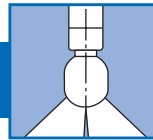


D1 = 59,5 mm (not for Clipon)

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	g
Clipon	series A (DIN)	40	41,5	—	69,5	172	35,2	24,2	5,5	1650
Clipon	series A (DIN)	50	54,3	—	69,5	158	19	10	5,5	1650
Clipon	series B (ISO)	40	49,6	—	69,5	158	19	10	5,5	1650
Clipon	series C (ASME)	40	52,0	—	69,5	158	19	10	5,5	1650
Clipon	series SMS	32	39,0	—	69,5	158	19	10	5,5	1650
Clipon	series SMS	40	52,0	—	69,5	158	19	10	5,5	1650
Weldon	series A (DIN)	50	53,0	1,5	69,5	180	34	—	—	1780
Weldon	series A (DIN)	40	41,0	1,5	69,5	180	27	—	—	1780
Weldon	series B (ISO)	40	48,3	2,0	69,5	180	31	—	—	1780
Weldon	series B (ISO)	50	60,3	2,0	69,5	180	31	—	—	1780
Weldon	series C (ASME)	40	2" (50,8)	1,65	69,5	180	32	—	—	1780
Weldon	series 3 (DIN 11850)	50	54,0	2,0	69,5	180	34	—	—	1780
Weldon	series SMS	32	38,0	1,2	69,5	180	27	—	—	1780
Weldon	series SMS	40	51,0	1,2	69,5	180	32	—	—	1780
Thread	BSP	32	G 1 1/4"	—	69,5	158	21	—	—	1650
Thread	NPT	32	1 1/4"	—	69,5	158	21	—	—	1650
Thread	BSP	40	G 1 1/2"	—	69,5	158	21	—	—	1650
Thread	NPT	40	1 1/2"	—	69,5	158	21	—	—	1650
Thread	NPS	40	1 1/2"	—	69,5	158	21	—	—	1650

Conne- ction	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	g
Clipon	series A (DIN)	40	41,5	—	69,5	172	35,2	24,2	5,5	1650
Clipon	series A (DIN)	50	54,3	—	69,5	158	19	10	5,5	1650
Clipon	series B (ISO)	40	49,6	—	69,5	158	19	10	5,5	1650
Clipon	series C (ASME)	40	52,0	—	69,5	158	19	10	5,5	1650
Clipon	series SMS	32	39,0	—	69,5	158	19	10	5,5	1650
Clipon	series SMS	40	52,0	—	69,5	158	19	10	5,5	1650
Weldon	series A (DIN)	50	53,0	1,5	69,5	180	34	—	—	1780
Weldon	series A (DIN)	40	41,0	1,5	69,5	180	27	—	—	1780
Weldon	series B (ISO)	40	48,3	2,0	69,5	180	31	—	—	1780
Weldon	series B (ISO)	50	60,3	2,0	69,5	180	31	—	—	1780
Weldon	series C (ASME)	40	2" (50,8)	1,65	69,5	180	32	—	—	1780
Weldon	series 3 (DIN 11850)	50	54,0	2,0	69,5	180	34	—	—	1780
Weldon	series SMS	32	38,0	1,2	69,5	180	27	—	—	1780
Weldon	series SMS	40	51,0	1,2	69,5	180	32	—	—	1780
Thread	BSP	32	G 1 1/4"	—	69,5	158	21	—	—	1650
Thread	NPT	32	1 1/4"	—	69,5	158	21	—	—	1650
Thread	BSP	40	G 1 1/2"	—	69,5	158	21	—	—	1650
Thread	NPT	40	1 1/2"	—	69,5	158	21	—	—	1650
Thread	NPS	40	1 1/2"	—	69,5	158	21	—	—	1650

Combine the TANKO®-S connection NPS-thread with the weldon nipple NPSM.
(page 26-27)



TANKO® S50 270° upwards

		1.4571 (316Ti)		1.4435 (316L)		1.4404 (316L)	
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
Clipon	40	on request	665 05 4500 6250	on request	665 05 4500 6230	on request	665 05 4500 6220
Clipon	50	on request	665 05 4600 6250	on request	665 05 4600 6230	on request	665 05 4600 6220
Clipon	40	on request	665 05 8100 6250	on request	665 05 8100 6230	on request	665 05 8100 6220
Clipon	40	on request	665 05 9300 6250	on request	665 05 9300 6230	on request	665 05 9300 6220
Clipon	32	on request	665 05 B300 6250	on request	665 05 B300 6230	on request	665 05 B300 6220
Clipon	40	on request	665 05 B400 6250	on request	665 05 B400 6230	on request	665 05 B400 6220
Weldon	50	on request	665 05 4600 6650	on request	665 05 4600 6630	on request	665 05 4600 6620
Weldon	40	on request	665 05 4500 6650	on request	665 05 4500 6630	on request	665 05 4500 6620
Weldon	40	on request	665 05 8100 6650	on request	665 05 8100 6630	on request	665 05 8100 6620
Weldon	50	on request	665 05 8200 6650	on request	665 05 8200 6630	on request	665 05 8200 6620
Weldon	40	on request	665 05 9300 6650	on request	665 05 9300 6630	on request	665 05 9300 6620
Weldon	50	on request	665 05 3600 6650	on request	665 05 3600 6630	on request	665 05 3600 6620
Weldon	32	on request	665 05 B300 6650	on request	665 05 B300 6630	on request	665 05 B300 6620
Weldon	40	on request	665 05 B400 6650	on request	665 05 B400 6630	on request	665 05 B400 6620
Thread	32	on request	665 05 8000 6350	on request	665 05 8000 6330	on request	665 05 8000 6320
Thread	32	on request	665 05 8000 6450	on request	665 05 8000 6430	on request	665 05 8000 6420
Thread	40	on request	665 05 8100 6350	on request	665 05 8100 6330	on request	665 05 8100 6320
Thread	40	on request	665 05 8100 6450	on request	665 05 8100 6430	on request	665 05 8100 6420
Thread	40	on request	665 05 8100 6A50	on request	665 05 8100 6A30	on request	665 05 8100 6A20

TANKO® S50 270° upwards

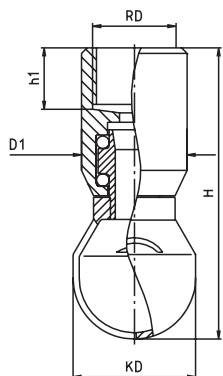
		2.4602 (HC22)		2.4610 (HC4)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.		
Clipon	40	on request	665 05 4500 6280	on request	665 05 4500 6270		
Clipon	50	on request	665 05 4600 6280	on request	665 05 4600 6270		
Clipon	40	on request	665 05 8100 6280	on request	665 05 8100 6270		
Clipon	40	on request	665 05 9300 6280	on request	665 05 9300 6270		
Clipon	32	on request	665 05 B300 6280	on request	665 05 B300 6270		
Clipon	40	on request	665 05 B400 6280	on request	665 05 B400 6270		
Weldon	50	on request	665 05 4600 6680	on request	665 05 4600 6670		
Weldon	40	on request	665 05 4500 6680	on request	665 05 4500 6670		
Weldon	40	on request	665 05 8100 6680	on request	665 05 8100 6670		
Weldon	50	on request	665 05 8200 6680	on request	665 05 8200 6670		
Weldon	40	on request	665 05 9300 6680	on request	665 05 9300 6670		
Weldon	50	on request	665 05 3600 6680	on request	665 05 3600 6670		
Weldon	32	on request	665 05 B300 6680	on request	665 05 B300 6670		
Weldon	40	on request	665 05 B400 6680	on request	665 05 B400 6670		
Thread	32	on request	665 05 8000 6380	on request	665 05 8000 6370		
Thread	32	on request	665 05 8000 6480	on request	665 05 8000 6470		
Thread	40	on request	665 05 8100 6380	on request	665 05 8100 6370		
Thread	40	on request	665 05 8100 6480	on request	665 05 8100 6470		
Thread	40	on request	665 05 8100 6A80	on request	665 05 8100 6A70		

Material specifications for TANKO® S such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. TANKO® S made of 2.4610 HC 4 or 2.4602 HC 22 the base plate, spray head and ball bearings are made of 2.4610 (HC 4) or 2.4602 (HC 22).



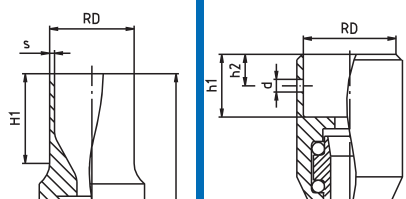
TANKO® S50 360°

Thread



Weldon

Clipon



D1 = 59,5 mm (not for Clipon)

Connec-tion	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	g
Clipon	series A (DIN)	40	41,5	—	69,5	172	35,2	24,2	5,5	1650
Clipon	series A (DIN)	50	54,3	—	69,5	158	19	10	5,5	1650
Clipon	series B (ISO)	40	49,6	—	69,5	158	19	10	5,5	1650
Clipon	series C (ASME)	40	52,0	—	69,5	158	19	10	5,5	1650
Clipon	series SMS	32	39,0	—	69,5	158	19	10	5,5	1650
Clipon	series SMS	40	52,0	—	69,5	158	19	10	5,5	1650
Weldon	series A (DIN)	50	53,0	1,5	69,5	180	34	—	—	1780
Weldon	series A (DIN)	40	41,0	1,5	69,5	180	27	—	—	1780
Weldon	series B (ISO)	40	48,3	2,0	69,5	180	31	—	—	1780
Weldon	series B (ISO)	50	60,3	2,0	69,5	180	31	—	—	1780
Weldon	series C (ASME)	40	2" (50,8)	1,65	69,5	180	32	—	—	1780
Weldon	series 3 (DIN 11850)	50	54,0	2,0	69,5	180	34	—	—	1780
Weldon	series SMS	32	38,0	1,2	69,5	180	27	—	—	1780
Weldon	series SMS	40	51,0	1,2	69,5	180	32	—	—	1780
Thread	BSP	32	G 1 1/4"	—	69,5	158	21	—	—	1650
Thread	NPT	32	1 1/4"	—	69,5	158	21	—	—	1650
Thread	BSP	40	G 1 1/2"	—	69,5	158	21	—	—	1650
Thread	NPT	40	1 1/2"	—	69,5	158	21	—	—	1650
Thread	NPS	40	1 1/2"	—	69,5	158	21	—	—	1650

Connec-tion	Standard DIN 11866	DN	RD Ø mm	s mm	KD Ø mm	H mm	h1 mm	h2 mm	d Ø mm	g
Clipon	series A (DIN)	40	41,5	—	69,5	172	35,2	24,2	5,5	1650
Clipon	series A (DIN)	50	54,3	—	69,5	158	19	10	5,5	1650
Clipon	series B (ISO)	40	49,6	—	69,5	158	19	10	5,5	1650
Clipon	series C (ASME)	40	52,0	—	69,5	158	19	10	5,5	1650
Clipon	series SMS	32	39,0	—	69,5	158	19	10	5,5	1650
Clipon	series SMS	40	52,0	—	69,5	158	19	10	5,5	1650
Weldon	series A (DIN)	50	53,0	1,5	69,5	180	34	—	—	1780
Weldon	series A (DIN)	40	41,0	1,5	69,5	180	27	—	—	1780
Weldon	series B (ISO)	40	48,3	2,0	69,5	180	31	—	—	1780
Weldon	series B (ISO)	50	60,3	2,0	69,5	180	31	—	—	1780
Weldon	series C (ASME)	40	2" (50,8)	1,65	69,5	180	32	—	—	1780
Weldon	series 3 (DIN 11850)	50	54,0	2,0	69,5	180	34	—	—	1780
Weldon	series SMS	32	38,0	1,2	69,5	180	27	—	—	1780
Weldon	series SMS	40	51,0	1,2	69,5	180	32	—	—	1780
Thread	BSP	32	G 1 1/4"	—	69,5	158	21	—	—	1650
Thread	NPT	32	1 1/4"	—	69,5	158	21	—	—	1650
Thread	BSP	40	G 1 1/2"	—	69,5	158	21	—	—	1650
Thread	NPT	40	1 1/2"	—	69,5	158	21	—	—	1650
Thread	NPS	40	1 1/2"	—	69,5	158	21	—	—	1650

Combine the TANKO®-S connection NPS-thread with the weldon nipple NPSM.
(page 26-27)



TANKO® S50 360°

		1.4571 (316Ti)		1.4435 (316L)		1.4404 (316L)	
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
Clipon	40	on request	665 05 4500 1250	on request	665 05 4500 1230	on request	665 05 4500 1220
Clipon	50	on request	665 05 4600 1250	on request	665 05 4600 1230	on request	665 05 4600 1220
Clipon	40	on request	665 05 8100 1250	on request	665 05 8100 1230	on request	665 05 8100 1220
Clipon	40	on request	665 05 9300 1250	on request	665 05 9300 1230	on request	665 05 9300 1220
Clipon	32	on request	665 05 B300 1250	on request	665 05 B300 1230	on request	665 05 B300 1220
Clipon	40	on request	665 05 B400 1250	on request	665 05 B400 1230	on request	665 05 B400 1220
Weldon	50	on request	665 05 4600 1650	on request	665 05 4600 1630	on request	665 05 4600 1620
Weldon	40	on request	665 05 4500 1650	on request	665 05 4500 1630	on request	665 05 4500 1620
Weldon	40	on request	665 05 8100 1650	on request	665 05 8100 1630	on request	665 05 8100 1620
Weldon	50	on request	665 05 8200 1650	on request	665 05 8200 1630	on request	665 05 8200 1620
Weldon	40	on request	665 05 9300 1650	on request	665 05 9300 1630	on request	665 05 9300 1620
Weldon	50	on request	665 05 3600 1650	on request	665 05 3600 1630	on request	665 05 3600 1620
Weldon	32	on request	665 05 B300 1650	on request	665 05 B300 1630	on request	665 05 B300 1620
Weldon	40	on request	665 05 B400 1650	on request	665 05 B400 1630	on request	665 05 B400 1620
Thread	32	on request	665 05 8000 1350	on request	665 05 8000 1330	on request	665 05 8000 1320
Thread	32	on request	665 05 8000 1450	on request	665 05 8000 1430	on request	665 05 8000 1420
Thread	40	on request	665 05 8100 1350	on request	665 05 8100 1330	on request	665 05 8100 1320
Thread	40	on request	665 05 8100 1450	on request	665 05 8100 1430	on request	665 05 8100 1420
Thread	40	on request	665 05 8100 1A50	on request	665 05 8100 1A30	on request	665 05 8100 1A20

TANKO® S50 360°

		2.4602 (HC22)		2.4610 (HC4)			
Connection	DN	Price/EUR	Item no.	Price/EUR	Item no.		
Clipon	40	on request	665 05 4500 1280	on request	665 05 4500 1270		
Clipon	50	on request	665 05 4600 1280	on request	665 05 4600 1270		
Clipon	40	on request	665 05 8100 1280	on request	665 05 8100 1270		
Clipon	40	on request	665 05 9300 1280	on request	665 05 9300 1270		
Clipon	32	on request	665 05 B300 1280	on request	665 05 B300 1270		
Clipon	40	on request	665 05 B400 1280	on request	665 05 B400 1270		
Weldon	50	on request	665 05 4600 1680	on request	665 05 4600 1670		
Weldon	40	on request	665 05 4500 1680	on request	665 05 4500 1670		
Weldon	40	on request	665 05 8100 1680	on request	665 05 8100 1670		
Weldon	50	on request	665 05 8200 1680	on request	665 05 8200 1670		
Weldon	40	on request	665 05 9300 1680	on request	665 05 9300 1670		
Weldon	50	on request	665 05 3600 1680	on request	665 05 3600 1670		
Weldon	32	on request	665 05 B300 1680	on request	665 05 B300 1670		
Weldon	40	on request	665 05 B400 1680	on request	665 05 B400 1670		
Thread	32	on request	665 05 8000 1380	on request	665 05 8000 1370		
Thread	32	on request	665 05 8000 1480	on request	665 05 8000 1470		
Thread	40	on request	665 05 8100 1380	on request	665 05 8100 1370		
Thread	40	on request	665 05 8100 1480	on request	665 05 8100 1470		
Thread	40	on request	665 05 8100 1A80	on request	665 05 8100 1A70		

Material specifications for TANKO® S such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. TANKO® S made of 2.4610 HC 4 or 2.4602 HC 22 the base plate, spray head and ball bearings are made of 2.4610 (HC 4) or 2.4602 (HC 22).

When baffles are a nuisance

Dynamic CIP systems clean even the remotest corners

Where to attach the spray head? This question arises with nearly every CIP installation. In most cases, spray shadows caused by baffles, such as agitators, manholes, inspection glasses and a host of other muffs complicate the setup of an efficient CIP cleaning. The solution for this is a traveling cleaning systems.

The number and location of the cleaning devices are defined by the operating mode of the container, the intended application within the production process and the structural conditions. If, in addition, an agitator limits the space for assembly, it becomes close to impossible to work out a sensible solution for the location of a spray head. Important criteria, such as self-cleansing, a design without dead spots, the required efficient cleaning performance and the attainment of all problematic areas inside the container make great demands on the cleaning device. An elegant solution is a so-called retractor using flood cleaners (Tanko[®] S or RPB-E, respectively). A pneumatic drive extends the flood cleaner to its place of operation.

This in itself is nothing new: technical variations have been known on the market for many years. The retractor version presented below, that of the Tanko-RT, combines this fundamental idea with the modern demands on a CIP cleaning system. One important component of the retractor is the cleaning head.

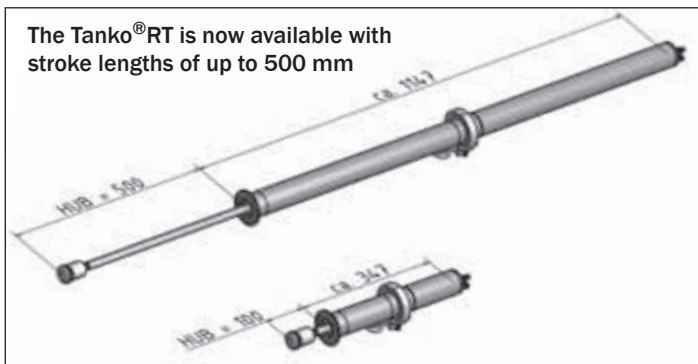
Solutions for spray heads currently available on the market do not offer a variation of the flow rate, which is frequently way too high. Containers, in particular smaller ones, thus run the risk of flooding. A cleansing of the contaminated container walls by flooding same with a detergent and a subsequent evacuation to the drain of the container then becomes impossible. At best, a flooding and cleansing of the upper container area is obtained. Now if the drain cannot evacuate this high volume of detergent, a sump results. The dirt removed from the container's upper section is transported into that sump. Depending on the sojourn / draining time until evacuation from the container, the suspended particles are prone to sedimentation. As a consequence, the suspended particles removed from the upper container section can now be found on the lower interior wall of the container. In order to prevent flooding or the creation of a sump, an adaptation of the spray head consumption to the respective working conditions is required.

Sump prevented

This task has been realized in the Tanko[®] RT. The Tanko[®] RPB-E spray head employed permits a flexible adaptation of the required detergent flow rate. Depending on the cleaning head model and the working pressure, flow rates between 1 and 7 m³/h are currently possible. A detergent pressure between 1 and 8 bars can be selected. Typical working pressure rates for flood cleaners are 3 to 5 bars. Thanks to its wide diameter (big slot widths) and high speed (working pressure), the droplet ejected from the flood cleaner obtains its best cleansing performance at this pressure.

The Tanko[®] RPB-E was designed based on the excellent hygienic experience gathered with the Tanko[®] S, which has been employed for many years. The disadvantages of a friction bearing spray head do not have any effect. The use of the Tanko[®] RPB-E in combination with the Tanko[®] RT easily towards the creation of a sump.

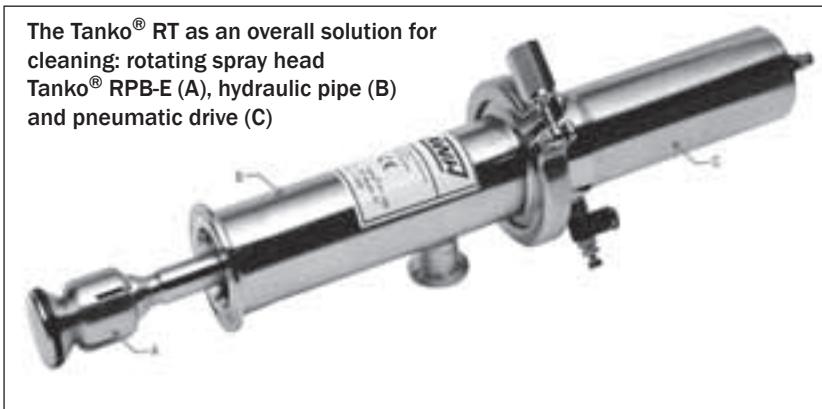
Another important component of the Tanko[®] RT is the hydraulic pipe. Employing the new pipe standard DIN 11866 permitted a considerable



The Tanko[®] RT is now available with stroke lengths of up to 500 mm

reduction of the installation size and thus of the cavity into which the spray head is retracted. After deploying the spray head, this area is filled first to build up pressure in the direction of the spray head.

This detergent quantity is not being used for the cleansing operation of the container wall. Following the CIP operation, the storage space for the flood cleaner has to be emptied and frequently dried by compressed air. Consequently, reducing the size of this area represents a considerable improvement as compared to existing concepts. The fact that a ponding inside the Tanko-RT is prevented by suitably inclined bores is another important point. Drying by air becomes a lot easier and produces best results. The pneumatic drive for deployment (dry) has been separated from the part carrying the detergent (wet) by a proven sealing system. An inserted magnet permits safe position recognition with an externally placed sensor. The available standard stroke lengths of 100, 150, 250 and now 500 mm as well set further standards. The additional stroke length of 500 mm opens the door to the solution of additional tasks.



The Tanko[®] RT as an overall solution for cleaning: rotating spray head Tanko[®] RPB-E (A), hydraulic pipe (B) and pneumatic drive (C)

A solution to check for leaks between the hydraulic and the pneumatic sections, similar to that of double seat or leakage disk valves, is under preparation. This way, an even safer hygienic operation can be guaranteed. The O-ring wear and tear is detected at the leakage exit. Thus, product contamination in case of faulty or aged O-rings by pneumatically pushed back water can be ruled out.

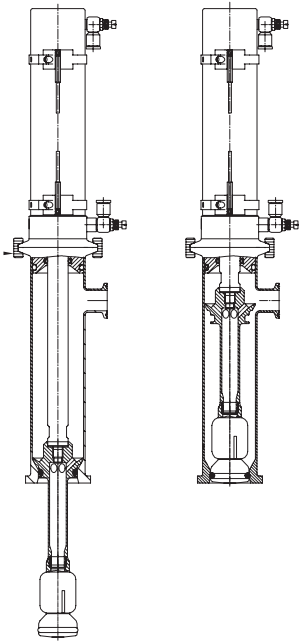
Up to 500 mm of stroke length

Typically, the working pressure for compressed air is 6 bars. As long as the selected pressure of the detergent does not exceed 5 bars, the locking pressure is sufficient to maintain the closed position of the Tanko[®] RPB-E.

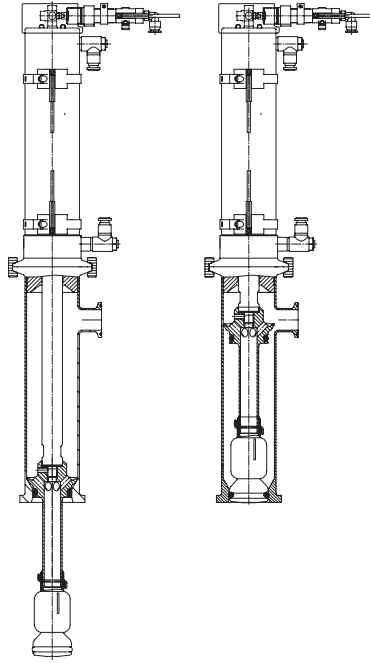
With the Tanko[®] RT, AWH has introduced another cleaning unit on the market. The modular concept results in the shortest possible delivery times. The unit is completely made of stainless steel (316 or 316L with 3.1 certificate) and EPDM seals (FDA-conform) for contact with detergents. The stainless steel types do not pose any problem in the evaluation for FDA conformity. By selecting these materials, a use in the chemical industry, in breweries, the foodstuffs industry and the highly sensitive pharmaceutical industry and in biotechnology is possible.

Summary TANKO[®] RT

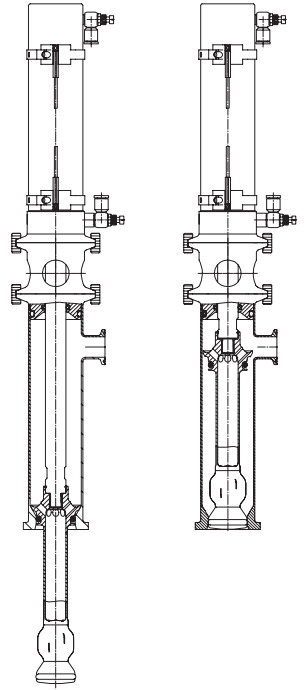
TANKO - RT
Standard



TANKO - RT
ATEX

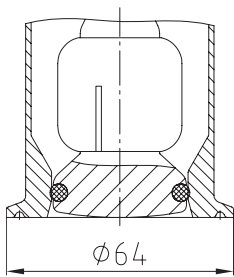


TANKO - RTF
3-A

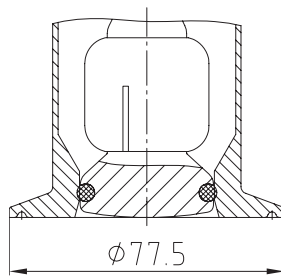


Connection versions

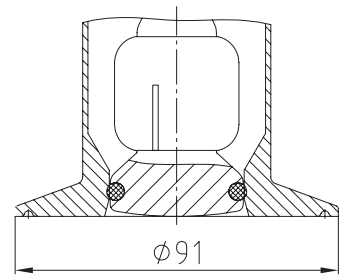
2" Clamp connection



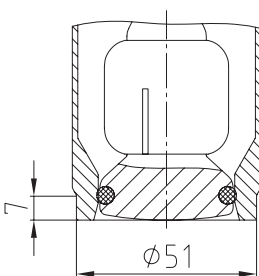
2 1/2" Clamp connection



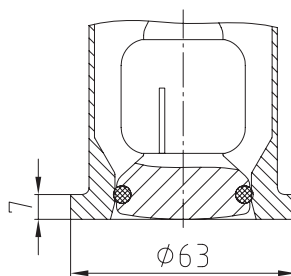
3" Clamp connection



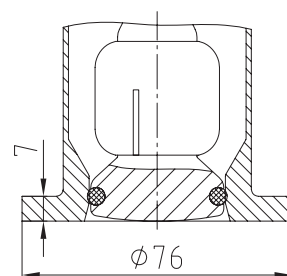
2" Welding connection



2 1/2" Welding connection



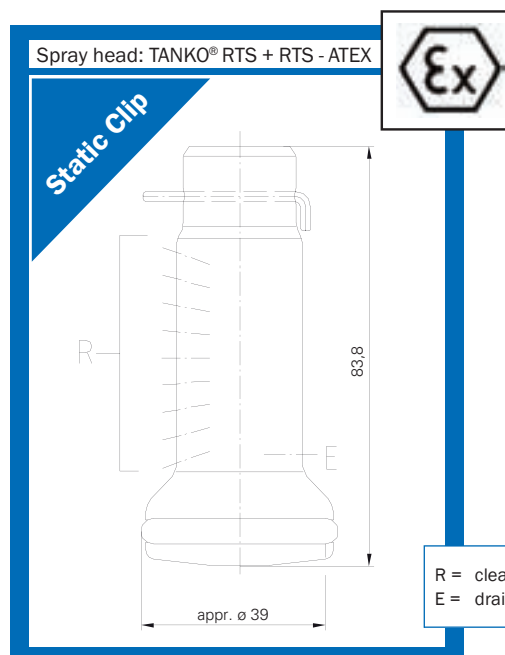
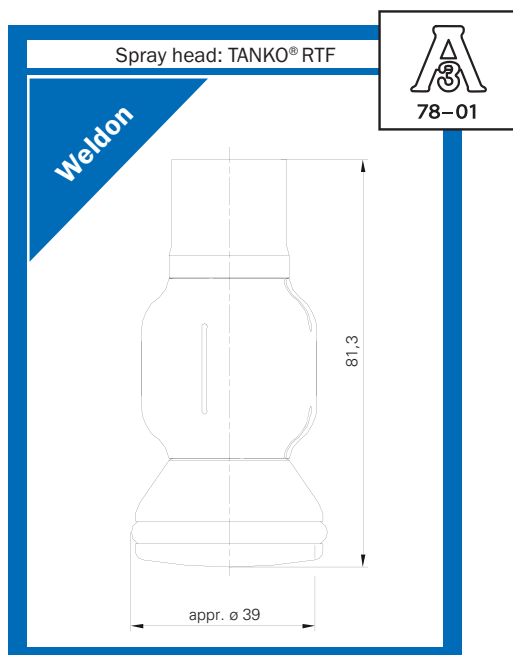
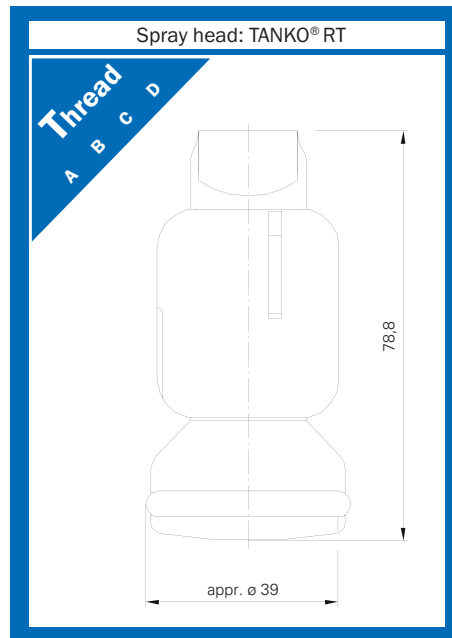
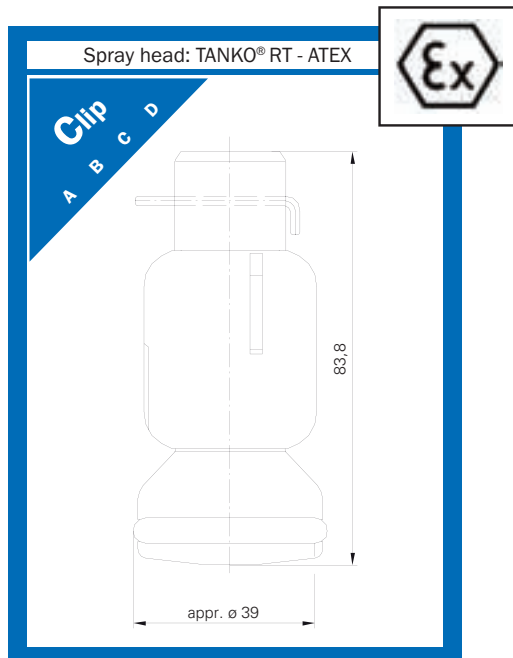
3" Welding connection



Spray head connections

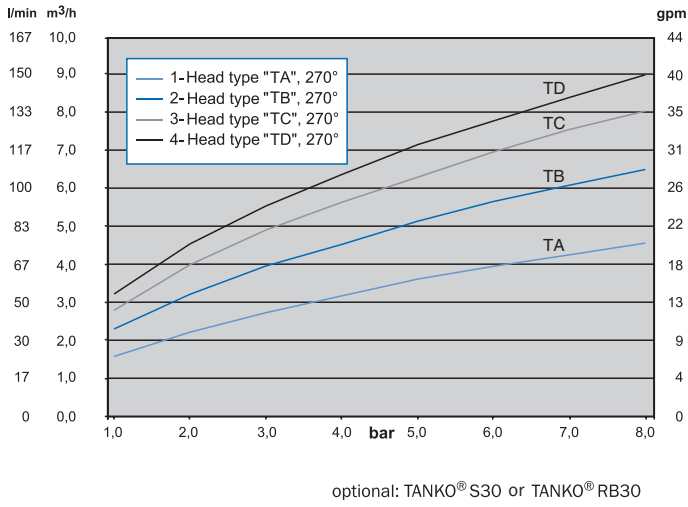
Options

	Head type	TANKO - RT	TANKO - RTS	TANKO - RT - ATEX	TANKO - RTS - ATEX	TANKO - RTF
Clip	A	-	-	X	-	-
	B	-	-	X	-	-
	C	-	-	X	-	-
	D	-	-	X	-	-
Thread	A	X	-	-	-	-
	B	X	-	-	-	-
	C	X	-	-	-	-
	D	X	-	-	-	-
Static Clip	SC	-	X	-	X	-
3-A Weldon	F	-	-	-	-	X

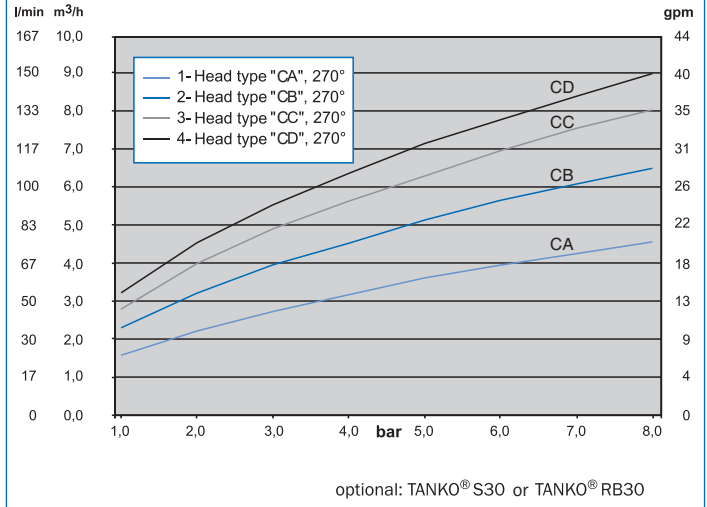


Flow rates with different Head type

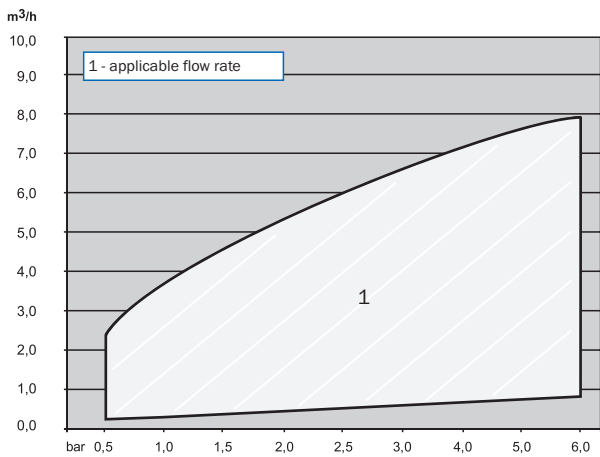
Flow rates TANKO® RT



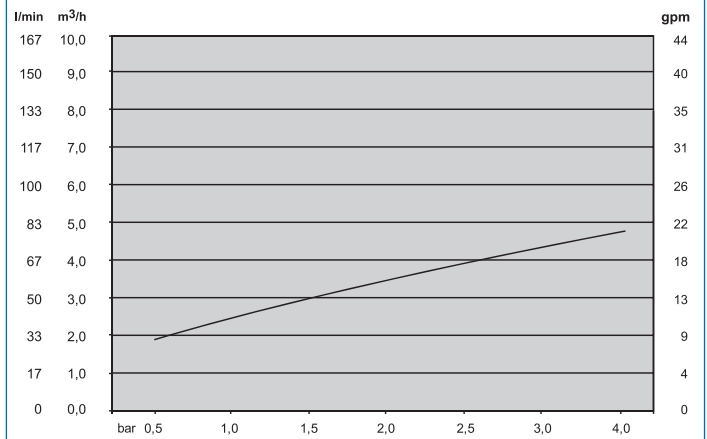
Flow rates TANKO® RT - ATEX



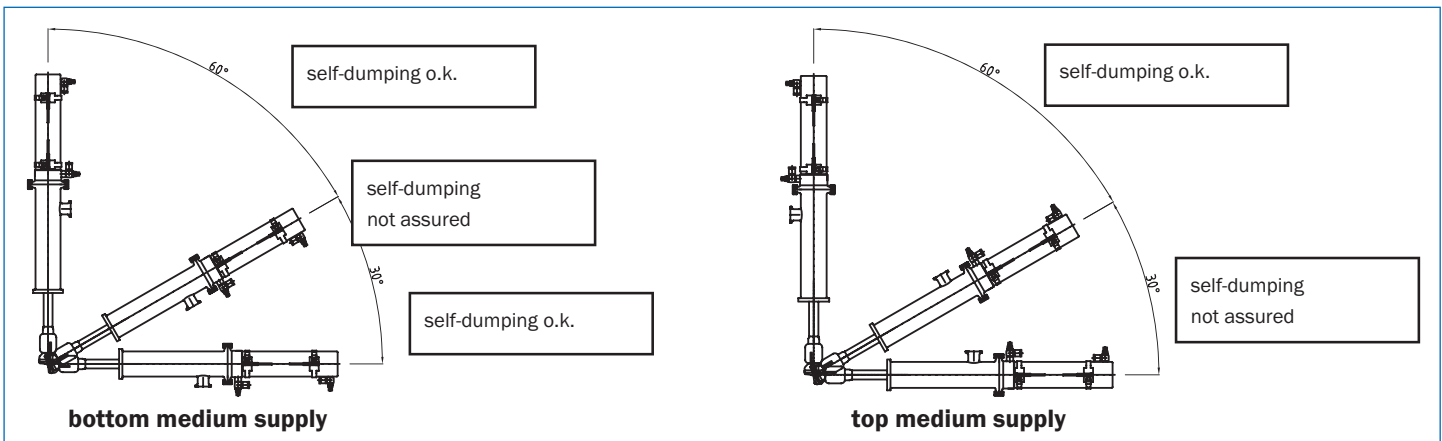
Flow rates TANKO® RTS and RTS - ATEX



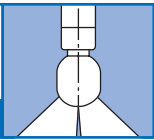
Flow rates TANKO® RTF



Installation advise regarding self-dumping



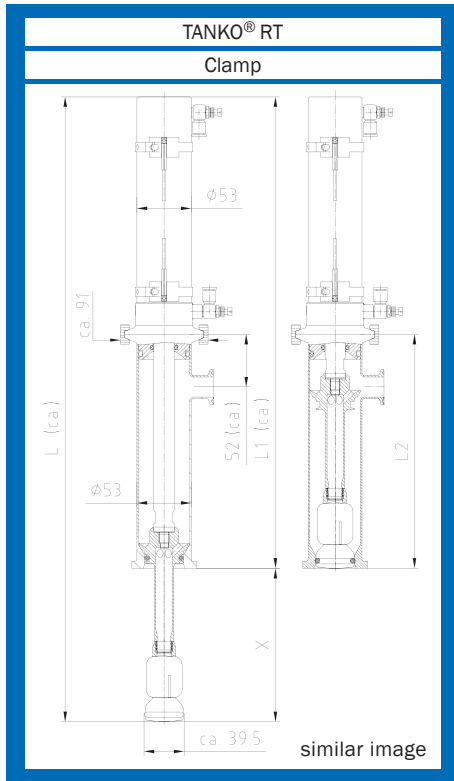
RT



RTS

TANKO® RT with Clamp connection

270° ↑



Stroke length	L mm	L1 mm	L2 mm	Spray head type	Sealing material	Final position switches	Pneumatic connection	kg
100	463	363	180	TA	EPDM	type 1	type 1 (Ø6)	4,4
100	463	363	180	TA	VITON	type 1	type 1 (Ø6)	4,4
100	463	363	180	TB	EPDM	type 1	type 1 (Ø6)	4,4
100	463	363	180	TB	VITON	type 1	type 1 (Ø6)	4,4
100	463	363	180	TC	EPDM	type 1	type 1 (Ø6)	4,4
100	463	363	180	TC	VITON	type 1	type 1 (Ø6)	4,4
100	463	363	180	TD	EPDM	type 1	type 1 (Ø6)	4,4
100	463	363	180	TD	VITON	type 1	type 1 (Ø6)	4,4
150	613	463	230	TA	EPDM	type 1	type 1 (Ø6)	5,2
150	613	463	230	TA	VITON	type 1	type 1 (Ø6)	5,2
150	613	463	230	TB	EPDM	type 1	type 1 (Ø6)	5,2
150	613	463	230	TB	VITON	type 1	type 1 (Ø6)	5,2
150	613	463	230	TC	EPDM	type 1	type 1 (Ø6)	5,2
150	613	463	230	TC	VITON	type 1	type 1 (Ø6)	5,2
150	613	463	230	TD	EPDM	type 1	type 1 (Ø6)	5,2
150	613	463	230	TD	VITON	type 1	type 1 (Ø6)	5,2
250	913	663	330	TA	EPDM	type 1	type 1 (Ø6)	6,5
250	913	663	330	TA	VITON	type 1	type 1 (Ø6)	6,5
250	913	663	330	TB	EPDM	type 1	type 1 (Ø6)	6,5
250	913	663	330	TB	VITON	type 1	type 1 (Ø6)	6,5
250	913	663	330	TC	EPDM	type 1	type 1 (Ø6)	6,5
250	913	663	330	TC	VITON	type 1	type 1 (Ø6)	6,5
250	913	663	330	TD	EPDM	type 1	type 1 (Ø6)	6,5
250	913	663	330	TD	VITON	type 1	type 1 (Ø6)	6,5
500	1663	1163	580	TA	EPDM	type 1	type 1 (Ø6)	9,2
500	1663	1163	580	TA	VITON	type 1	type 1 (Ø6)	9,2
500	1663	1163	580	TB	EPDM	type 1	type 1 (Ø6)	9,2
500	1663	1163	580	TB	VITON	type 1	type 1 (Ø6)	9,2
500	1663	1163	580	TC	EPDM	type 1	type 1 (Ø6)	9,2
500	1663	1163	580	TC	VITON	type 1	type 1 (Ø6)	9,2
500	1663	1163	580	TD	EPDM	type 1	type 1 (Ø6)	9,2
500	1663	1163	580	TD	VITON	type 1	type 1 (Ø6)	9,2

Standard medium connection:

clamp acc. to DIN 32676 (series A) DN25

alternatively: clamp 1" acc. to DIN 32676 (series C)

Process connection:

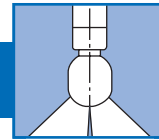
connectable to clamp acc. to DIN 32676, series A, B, and C

Materials:

medium affected: 1.4435 (316L), (ball bearing 1.4401 (316), optionally HC4), PTFE, EPDM (optionally: VITON), others on request

others (pneumatic side): AISI 304, 430F, 316L, 316Ti, PU, EPDM

Temperature limits	EPDM	VITON
max. working temperature (cleaning medium):	140 °C	on request
max. ambient temperature (inside tank):	150 °C	on request
max. ambient temperature (outside tank)	60 °C	60 °C



TANKO® RT process connection: Clamp acc. to DIN 32676 (series C, ASME)

		2"		2,5"		3"	
Stroke	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.	
100	on request	66R3 110 1925 3110	on request	66R3 110 1926 3110	on request	66R3 110 1927 3110	
100	on request	66R3 310 1925 3110	on request	66R3 310 1926 3110	on request	66R3 310 1927 3110	
100	on request	66R4 110 1925 3110	on request	66R4 110 1926 3110	on request	66R4 110 1927 3110	
100	on request	66R4 310 1925 3110	on request	66R4 310 1926 3110	on request	66R4 310 1927 3110	
100	on request	66R5 110 1925 3110	on request	66R5 110 1926 3110	on request	66R5 110 1927 3110	
100	on request	66R5 310 1925 3110	on request	66R5 310 1926 3110	on request	66R5 310 1927 3110	
100	on request	66R6 110 1925 3110	on request	66R6 110 1926 3110	on request	66R6 110 1927 3110	
100	on request	66R6 310 1925 3110	on request	66R6 310 1926 3110	on request	66R6 310 1927 3110	
150	on request	66R3 115 1925 3110	on request	66R3 115 1926 3110	on request	66R3 115 1927 3110	
150	on request	66R3 315 1925 3110	on request	66R3 315 1926 3110	on request	66R3 315 1927 3110	
150	on request	66R4 115 1925 3110	on request	66R4 115 1926 3110	on request	66R4 115 1927 3110	
150	on request	66R4 315 1925 3110	on request	66R4 315 1926 3110	on request	66R4 315 1927 3110	
150	on request	66R5 115 1925 3110	on request	66R5 115 1926 3110	on request	66R5 115 1927 3110	
150	on request	66R5 315 1925 3110	on request	66R5 315 1926 3110	on request	66R5 315 1927 3110	
150	on request	66R6 115 1925 3110	on request	66R6 115 1926 3110	on request	66R6 115 1927 3110	
150	on request	66R6 315 1925 3110	on request	66R6 315 1926 3110	on request	66R6 315 1927 3110	
250	on request	66R3 125 1925 3110	on request	66R3 125 1926 3110	on request	66R3 125 1927 3110	
250	on request	66R3 325 1925 3110	on request	66R3 325 1926 3110	on request	66R3 325 1927 3110	
250	on request	66R4 125 1925 3110	on request	66R4 125 1926 3110	on request	66R4 125 1927 3110	
250	on request	66R4 325 1925 3110	on request	66R4 325 1926 3110	on request	66R4 325 1927 3110	
250	on request	66R5 125 1925 3110	on request	66R5 125 1926 3110	on request	66R5 125 1927 3110	
250	on request	66R5 325 1925 3110	on request	66R5 325 1926 3110	on request	66R5 325 1927 3110	
250	on request	66R6 125 1925 3110	on request	66R6 125 1926 3110	on request	66R6 125 1927 3110	
250	on request	66R6 325 1925 3110	on request	66R6 325 1926 3110	on request	66R6 325 1927 3110	
500	on request	66R3 150 1925 3110	on request	66R3 150 1926 3110	on request	66R3 150 1927 3110	
500	on request	66R3 350 1925 3110	on request	66R3 350 1926 3110	on request	66R3 350 1927 3110	
500	on request	66R4 150 1925 3110	on request	66R4 150 1926 3110	on request	66R4 150 1927 3110	
500	on request	66R4 350 1925 3110	on request	66R4 350 1926 3110	on request	66R4 350 1927 3110	
500	on request	66R5 150 1925 3110	on request	66R5 150 1926 3110	on request	66R5 150 1927 3110	
500	on request	66R5 350 1925 3110	on request	66R5 350 1926 3110	on request	66R5 350 1927 3110	
500	on request	66R6 150 1925 3110	on request	66R6 150 1926 3110	on request	66R6 150 1927 3110	
500	on request	66R6 350 1925 3110	on request	66R6 350 1926 3110	on request	66R6 350 1927 3110	

RTS

Notice: TANKO® RTS locked against rotation with static spray head SPB35E

The TANKO - RTS will be delivered with spray head connection: clipon. The static spray head is mounted on the TANKO - RTS unit and can be drilled according to the application by AWH or the customer itself.

[see page 80](#)

Order notice:

With reference to the RTS - version with lock against rotation please replace the 9th position of item number: 9 ("Nine") by an 8 ("Eight").

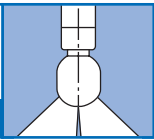
Spray head for TANKO® RTS

1.4435 (316L)

gasket material	Price/EUR	Item no.
EPDM	on request	6676 XOX 0602 0231
VITON	on request	6676 XOX 0602 0232
drilling on demand	on request	870903

Drilling: Direction and quantities on demand.

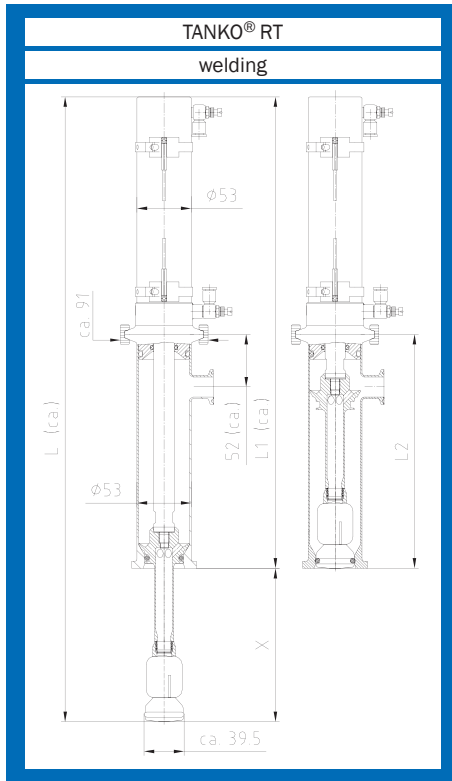
RT



RTS

TANKO® RT with Welding connection

270° ↑



Stroke length	L mm	L1 mm	L2 mm	Spray head type	Sealing material	Final position switches	Pneumatic connection	kg
100	463	363	180	TA	EPDM	type 1	type 1 (Ø6)	4,4
100	463	363	180	TA	VITON	type 1	type 1 (Ø6)	4,4
100	463	363	180	TB	EPDM	type 1	type 1 (Ø6)	4,4
100	463	363	180	TB	VITON	type 1	type 1 (Ø6)	4,4
100	463	363	180	TC	EPDM	type 1	type 1 (Ø6)	4,4
100	463	363	180	TC	VITON	type 1	type 1 (Ø6)	4,4
100	463	363	180	TD	EPDM	type 1	type 1 (Ø6)	4,4
100	463	363	180	TD	VITON	type 1	type 1 (Ø6)	4,4
150	613	463	230	TA	EPDM	type 1	type 1 (Ø6)	5,2
150	613	463	230	TA	VITON	type 1	type 1 (Ø6)	5,2
150	613	463	230	TB	EPDM	type 1	type 1 (Ø6)	5,2
150	613	463	230	TB	VITON	type 1	type 1 (Ø6)	5,2
150	613	463	230	TC	EPDM	type 1	type 1 (Ø6)	5,2
150	613	463	230	TC	VITON	type 1	type 1 (Ø6)	5,2
150	613	463	230	TD	EPDM	type 1	type 1 (Ø6)	5,2
150	613	463	230	TD	VITON	type 1	type 1 (Ø6)	5,2
250	913	663	330	TA	EPDM	type 1	type 1 (Ø6)	6,5
250	913	663	330	TA	VITON	type 1	type 1 (Ø6)	6,5
250	913	663	330	TB	EPDM	type 1	type 1 (Ø6)	6,5
250	913	663	330	TB	VITON	type 1	type 1 (Ø6)	6,5
250	913	663	330	TC	EPDM	type 1	type 1 (Ø6)	6,5
250	913	663	330	TC	VITON	type 1	type 1 (Ø6)	6,5
250	913	663	330	TD	EPDM	type 1	type 1 (Ø6)	6,5
250	913	663	330	TD	VITON	type 1	type 1 (Ø6)	6,5
500	1663	1163	580	TA	EPDM	type 1	type 1 (Ø6)	9,2
500	1663	1163	580	TA	VITON	type 1	type 1 (Ø6)	9,2
500	1663	1163	580	TB	EPDM	type 1	type 1 (Ø6)	9,2
500	1663	1163	580	TB	VITON	type 1	type 1 (Ø6)	9,2
500	1663	1163	580	TC	EPDM	type 1	type 1 (Ø6)	9,2
500	1663	1163	580	TC	VITON	type 1	type 1 (Ø6)	9,2
500	1663	1163	580	TD	EPDM	type 1	type 1 (Ø6)	9,2
500	1663	1163	580	TD	VITON	type 1	type 1 (Ø6)	9,2

Standard medium connection:

clamp acc. to DIN 32676 (series A) DN25

alternatively: clamp 1" acc. to DIN 32676 (series C)

Materials:

medium affected: 1.4435 (316L), (ball bearing 1.4401 (316), optionally HC4), PTFE, EPDM (optionally: VITON), others on request

others (pneumatic side): AISI 304, 430F, 316L, 316Ti, PU, EPDM

Temperature limitsmax. working temperature
(cleaning medium):EPDM
140 °CVITON
on requestmax. ambient temperature
(inside tank):

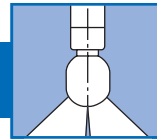
150 °C

on request

max. ambient temperature
(outside tank)

60 °C

60 °C



TANKO® RT process connection: Welding connection

		2"		2,5"		3"	
Stroke	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.	
100	on request	66R3 110 1935 3110	on request	66R3 110 1936 3110	on request	66R3 110 1937 3110	
100	on request	66R3 310 1935 3110	on request	66R3 310 1936 3110	on request	66R3 310 1937 3110	
100	on request	66R4 110 1935 3110	on request	66R4 110 1936 3110	on request	66R4 110 1937 3110	
100	on request	66R4 310 1935 3110	on request	66R4 310 1936 3110	on request	66R4 310 1937 3110	
100	on request	66R5 110 1935 3110	on request	66R5 110 1936 3110	on request	66R5 110 1937 3110	
100	on request	66R5 310 1935 3110	on request	66R5 310 1936 3110	on request	66R5 310 1937 3110	
100	on request	66R6 110 1935 3110	on request	66R6 110 1936 3110	on request	66R6 110 1937 3110	
100	on request	66R6 310 1935 3110	on request	66R6 310 1936 3110	on request	66R6 310 1937 3110	
150	on request	66R3 115 1935 3110	on request	66R3 115 1936 3110	on request	66R3 115 1937 3110	
150	on request	66R3 315 1935 3110	on request	66R3 315 1936 3110	on request	66R3 315 1937 3110	
150	on request	66R4 115 1935 3110	on request	66R4 115 1936 3110	on request	66R4 115 1937 3110	
150	on request	66R4 315 1935 3110	on request	66R4 315 1936 3110	on request	66R4 315 1937 3110	
150	on request	66R5 115 1935 3110	on request	66R5 115 1936 3110	on request	66R5 115 1937 3110	
150	on request	66R5 315 1935 3110	on request	66R5 315 1936 3110	on request	66R5 315 1937 3110	
150	on request	66R6 115 1935 3110	on request	66R6 115 1936 3110	on request	66R6 115 1937 3110	
150	on request	66R6 315 1935 3110	on request	66R6 315 1936 3110	on request	66R6 315 1937 3110	
250	on request	66R3 125 1935 3110	on request	66R3 125 1936 3110	on request	66R3 125 1937 3110	
250	on request	66R3 325 1935 3110	on request	66R3 325 1936 3110	on request	66R3 325 1937 3110	
250	on request	66R4 125 1935 3110	on request	66R4 125 1936 3110	on request	66R4 125 1937 3110	
250	on request	66R4 325 1935 3110	on request	66R4 325 1936 3110	on request	66R4 325 1937 3110	
250	on request	66R5 125 1935 3110	on request	66R5 125 1936 3110	on request	66R5 125 1937 3110	
250	on request	66R5 325 1935 3110	on request	66R5 325 1936 3110	on request	66R5 325 1937 3110	
250	on request	66R6 125 1935 3110	on request	66R6 125 1936 3110	on request	66R6 125 1937 3110	
250	on request	66R6 325 1935 3110	on request	66R6 325 1936 3110	on request	66R6 325 1937 3110	
500	on request	66R3 150 1935 3110	on request	66R3 150 1936 3110	on request	66R3 150 1937 3110	
500	on request	66R3 350 1935 3110	on request	66R3 350 1936 3110	on request	66R3 350 1937 3110	
500	on request	66R4 150 1935 3110	on request	66R4 150 1936 3110	on request	66R4 150 1937 3110	
500	on request	66R4 350 1935 3110	on request	66R4 350 1936 3110	on request	66R4 350 1937 3110	
500	on request	66R5 150 1935 3110	on request	66R5 150 1936 3110	on request	66R5 150 1937 3110	
500	on request	66R5 350 1935 3110	on request	66R5 350 1936 3110	on request	66R5 350 1937 3110	
500	on request	66R6 150 1935 3110	on request	66R6 150 1936 3110	on request	66R6 150 1937 3110	
500	on request	66R6 350 1935 3110	on request	66R6 350 1936 3110	on request	66R6 350 1937 3110	

RTS

Notice: TANKO® RTS locked against rotation with static spray head SPB35E

The TANKO - RTS will be delivered with spray head connection: clipon. The static spray head is mounted on the TANKO - RTS unit and can be drilled according to the application by AWH or the customer itself.

[see page 80](#)

Order notice:

With reference to the RTS - version with lock against rotation please replace the 9th position of item number: 9 ("Nine") by an 8 ("Eight").

Spray head for TANKO® RTS

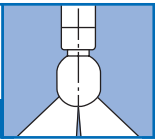
1.4435 (316L)

gasket material	Price/EUR	Item no.
EPDM	on request	6676 X0X 0602 0231
VITON	on request	6676 X0X 0602 0232
drilling on demand	on request	870903

Drilling: Direction and quantities on demand.

RT

270° ↑



RTS

TANKO® RT



TANKO® RT

Information acc. to ATEX (extract) on TANKO® RT - ATEX + RTS - ATEX



TANKO® RT100 ATEX
TANKO® RT150 ATEX
TANKO® RT250 ATEX
TANKO® RT500 ATEX

TANKO® RTS100 ATEX
TANKO® RTS150 ATEX
TANKO® RTS250 ATEX

Explanation:
G = gas
D = dust
c = constructional safety
b = ignition source control

II 1/2 GD c b TX

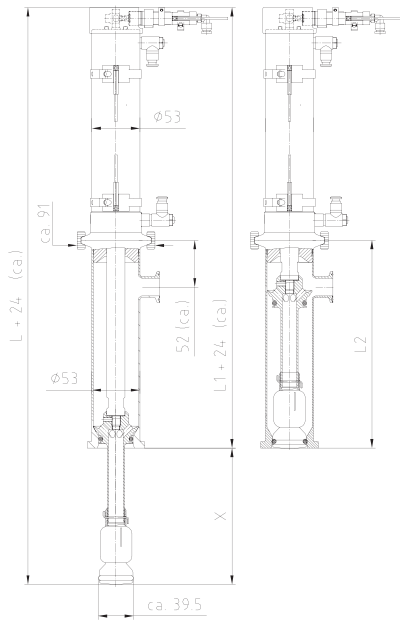


* dependent on model and cleansing agent

BVS 10 ATEX H 006 X

Volume flow rate: 27-167 l/min
Typical operating pressure: 3 bar
Cleansing agent: < 70 °C
Ambient temperature (inside tank): < 70 °C

Operating instruction enclosed to each ATEX delivery.



Compared to the standard version different length L and L1 (+24 mm) are effective for the ATEX - version. see page 82 - 85

Extra charge ATEX-Version:

Extra charge on standard products of TANKO® RT - series: on request ¹⁾

¹⁾ Price apply for user language german or english, other user languages on request.

Order notice:

- Please use for order the adequate standard item number (referring to pages 82 - 83 and 84 - 85, respectively) and replace the last position ("0") by "X". Example: 66R_____X
- With reference to the RTS - version with lock against rotation please also replace the 9th position of item number: 9 ("Nine") by an 8 ("Eight").

Standard medium connection:

clamp acc. to DIN 32676 (series A) DN25
alternatively: clamp 1" acc. to DIN 32676 (series C)

Materials:

medium affected: 1.4435 (316L), (ball bearing 1.4401 (316), optionally HC4), PTFE, EPDM (optionally: VITON), others on request
others (pneumatic side): AISI 304, 430F, 316L, 316Ti, PU, EPDM

Temperature limits

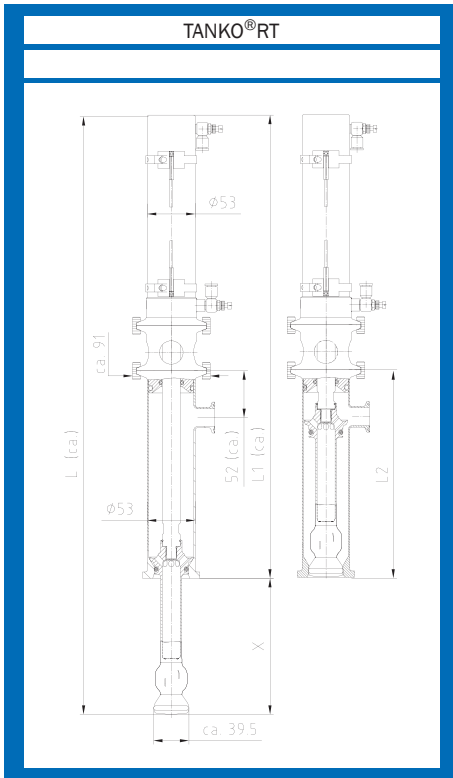
max. working temperature
(cleaning medium):
max. ambient temperature
(inside tank):
max. ambient temperature
(outside tank)

EPDM

70 °C
70 °C
40 °C

VITON

70 °C
70 °C
40 °C



Information to TANKO® RTF

The TANKO® RTF comply with requirements of 3-A Sanitary Standards 78 - 01.

Link: www.3-a.org

The TANKO® RTF is available with stroke length 100, 150, 250 und 500 mm and with head type "FA".

Compared to the standard version different length L and L1 (+50 mm) are effective for the 3-A - version. see page 82 - 85

TANKO® RTF Clamp connection

		2"		2,5"		3"	
Stroke	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.	
100	on request	66RA 110 OK25 3110	on request	66RA 110 OK26 3110	on request	66RA 110 OK27 3110	
150	on request	66RA 115 OK25 3110	on request	66RA 115 OK26 3110	on request	66RA 115 OK27 3110	
200	on request	66RA 125 OK25 3110	on request	66RA 125 OK26 3110	on request	66RA 125 OK27 3110	
500	on request	66RA 150 OK25 3110	on request	66RA 150 OK26 3110	on request	66RA 150 OK27 3110	

TANKO® RTF Welding connection

		2"		2,5"		3"	
Stroke	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.	
100	on request	66RA 110 OK35 3110	on request	66RA 110 OK36 3110	on request	66RA 110 OK37 3110	
150	on request	66RA 115 OK35 3110	on request	66RA 115 OK36 3110	on request	66RA 115 OK37 3110	
200	on request	66RA 125 OK35 3110	on request	66RA 125 OK36 3110	on request	66RA 125 OK37 3110	
500	on request	66RA 150 OK35 3110	on request	66RA 150 OK36 3110	on request	66RA 150 OK37 3110	

Standard medium connection:

clamp acc. to DIN 32676 (series A) DN25
alternatively: clamp 1" acc. to DIN 32676 (series C)

Material:

medium affected: 1.4435 (316L), PEEK, EPDM
others (pneumatic side): AISI 304, 430F, 316L, 316Ti, PU, PTFE

Temperature limits

max. working temperature
(cleaning medium):
max. ambient temperature
(inside tank):
max. ambient temperature
(outside tank)

EPDM

95 °C (203 °F)
150 °C (304 °F)
60 °C (140 °F)



TANKO® RB30 - 360° Clipon

TANKO® RB40 - 360° Clipon



Material

1.4571 (316Ti), 1.4435 (316L), 2.4602 (HC22)

Bearing balls

1.4401 (316)

alternative: 2.4602 (HC22), 2.4610 (HC4), see page 14

Working pressure

< 1 to 3 bar

Maximum vessel diameter

see product description

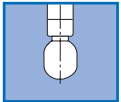
Volume flow rate [m³/h]

see product description

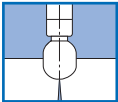
Application:

for homogenous and rapid distribution of large quantities.

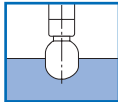
Spray pattern



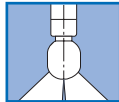
360°



180° upwards



180° downwards

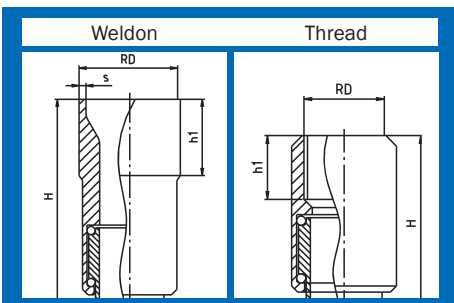
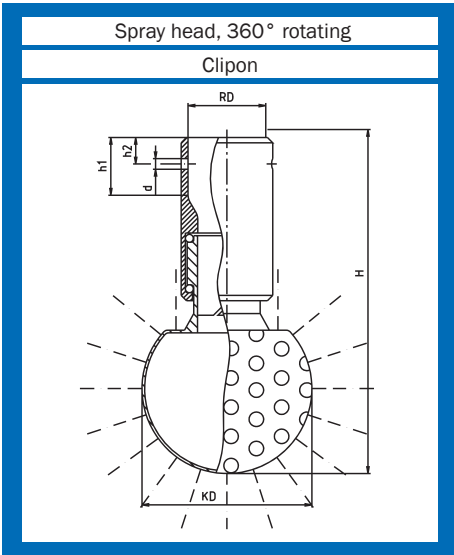


270° upwards

TANKO® RB

The combination of the well-proven drive with ball bearing with a static spray head for improved coating of the vessel's surface.

TANKO® RB30



Connec- tion	Standard DIN 11866	DN	RD Ø mm	KD Ø mm	h1 mm	h2 mm	d Ø mm	H mm	Spray dia- meter Ø m	Throughput m³/h	
										1,5 bar	3 bar
Clipon	series A (DIN)	10	13,2	30	17	8	2,2	78	1,0 - 1,5	2,4	3,2
Clipon	series B (ISO)	10	17,4	30	17	8	2,2	78	1,0 - 1,5	2,4	3,2
Clipon	series C (ASME)	8	12,9	30	17	8	2,2	78	1,0 - 1,5	2,4	3,2
Weldon	series A (DIN)	15	19,0	30	26	--	--	90	1,0 - 1,5	2,4	3,2
Weldon	series B (ISO)	10	17,2	30	26	--	--	90	1,0 - 1,5	2,4	3,2
Weldon	series C (ASME)	15	19,05	30	26	--	--	90	1,0 - 1,5	2,4	3,2
Thread	BSP	8	G 1/4"	30	12	--	--	70	1,0 - 1,5	2,4	3,2
Thread	NPT	8	1/4"	30	12	--	--	70	1,0 - 1,5	2,4	3,2
Thread	BSP	8	G 3/8"	30	12	--	--	70	1,0 - 1,5	2,4	3,2
Thread	NPT	8	3/8"	30	12	--	--	70	1,0 - 1,5	2,4	3,2
Thread	NPS	8	3/8"	30	12	--	--	70	1,0 - 1,5	2,4	3,2

Combine the TANKO® RB connection NPS-thread with the weldon nipple NPSM. (page 26-27)



The AWH-TANKO® RB unites the well-known features of a static spray ball with the advantages of a rotating system. Owing to the spray ball rotation large quantities of cleansing agent are spread homogenously onto the inner surface of your vessels/your barrels in shortest time. The results are a considerable reduction of cleansing agent consumption and cleaning duration. Even in case of a failure of the rotating system, the cleaning function of the now static spray ball is maintained.

A typical area of application is the low-pressure range, which does not require a jet cleaner, but higher flow rates, than our TANKO® S types can provide. Existing plants can be retrofitted with the AWH -TANKO® RB, without modification of the currently validated application.

Likewise to the TANKO® S types, the double-bearing TANKO® RB can be operated in any fitting position desired.

Technical details

Size	approx. weight (g)
TANKO® RB 30	95
TANKO® RB 40	122
TANKO® RB 64	300
TANKO® RB 90	722

TANKO® RB30

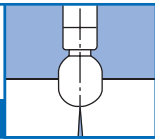
Rotating spray head, perforation 360°

1.4571 (316Ti)			1.4435 (316L)		2.4602 (HC22)	
DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
10	on request	661 03 4000 1250	on request	661 03 4000 1230	on request	661 03 4000 1280
10	on request	661 03 7600 1250	on request	661 03 7600 1230	on request	661 03 7600 1280
8	on request	661 03 8900 1250	on request	661 03 8900 1230	on request	661 03 8900 1280
15	on request	661 03 4100 1650	on request	661 03 4100 1630	on request	661 03 4100 1680
10	on request	661 03 7600 1650	on request	661 03 7600 1630	on request	661 03 7600 1680
15	on request	661 03 9000 1650	on request	661 03 9000 1630	on request	661 03 9000 1680
8	on request	661 03 7500 1350	on request	661 03 7500 1330	on request	661 03 7500 1380
8	on request	661 03 7500 1450	on request	661 03 7500 1430	on request	661 03 7500 1480
8	on request	661 03 7600 1350	on request	661 03 7600 1330	on request	661 03 7600 1380
8	on request	661 03 7600 1450	on request	661 03 7600 1430	on request	661 03 7600 1480
8	on request	661 03 7600 1750	on request	661 03 7600 1730	on request	661 03 7600 1780

Material specifications for TANKO® RB such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. For the TANKO® RB made of 2.4602 (HC 22) the base plate, spray head and ball bearings are made of 2.4602 (HC 22).

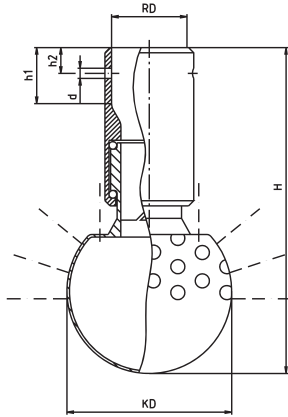
RB30

180° ↑

**TANKO® RB30**
ATEX
 versions + details
 see page 10

Spray head, 180° upwards, rotating

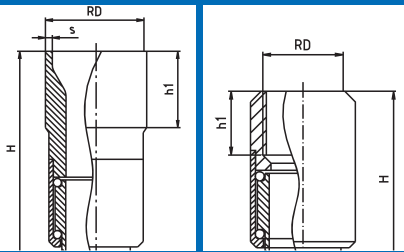
Clipon



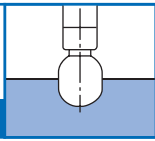
Conne- ction	Standard DIN 11866	DN	RD Ø mm	KD Ø mm	h1 mm	h2 mm	d Ø mm	H mm	Spray dia- meter Ø m	Throughput 1,5 bar	m³/h 3 bar
Clipon	series A (DIN)	10	13,2	30	17	8	2,2	78	1,0 - 1,5	2,3	3,2
Clipon	series B (ISO)	10	17,4	30	17	8	2,2	78	1,0 - 1,5	2,3	3,2
Clipon	series C (ASME)	8	12,9	30	17	8	2,2	78	1,0 - 1,5	2,3	3,2
Weldon	series A (DIN)	15	19,0	30	26	--	--	90	1,0 - 1,5	2,3	3,2
Weldon	series B (ISO)	10	17,2	30	26	--	--	90	1,0 - 1,5	2,3	3,2
Weldon	series C (ASME)	15	19,05	30	26	--	--	90	1,0 - 1,5	2,3	3,2
Thread	BSP	8	G 1/4"	30	12	--	--	70	1,0 - 1,5	2,3	3,2
Thread	NPT	8	1/4"	30	12	--	--	70	1,0 - 1,5	2,3	3,2
Thread	BSP	8	G 3/8"	30	12	--	--	70	1,0 - 1,5	2,3	3,2
Thread	NPT	8	3/8"	30	12	--	--	70	1,0 - 1,5	2,3	3,2
Thread	NPS	8	3/8"	30	12	--	--	70	1,0 - 1,5	2,3	3,2

Weldon

Thread

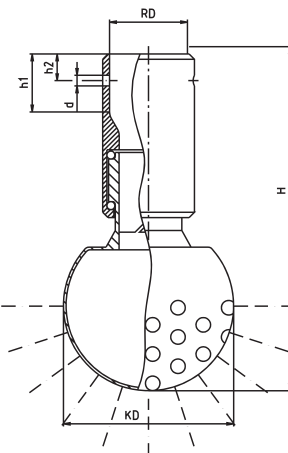

 Combine the TANKO® RB connection NPS-thread with the weldon nipple NPSM.
 (page 26-27)
RB30

180° ↓

**TANKO® RB30**
ATEX
 versions + details
 see page 10

Spray head, 180° downwards, rotating

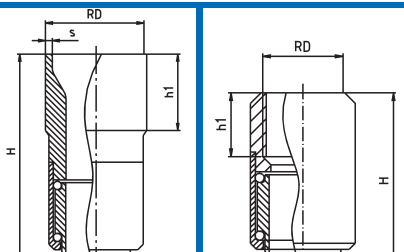
Clipon



Conne- ction	Standard DIN 11866	DN	RD Ø mm	KD Ø mm	h1 mm	h2 mm	d Ø mm	H mm	Spray dia- meter Ø m	Throughput 1,5 bar	m³/h 3 bar
Clipon	series A (DIN)	10	13,2	30	17	8	2,2	78	1,0 - 1,5	2,3	3,1
Clipon	series B (ISO)	10	17,4	30	17	8	2,2	78	1,0 - 1,5	2,3	3,1
Clipon	series C (ASME)	8	12,9	30	17	8	2,2	78	1,0 - 1,5	2,3	3,1
Weldon	series A (DIN)	15	19,0	30	26	--	--	90	1,0 - 1,5	2,3	3,1
Weldon	series B (ISO)	10	17,2	30	26	--	--	90	1,0 - 1,5	2,3	3,1
Weldon	series C (ASME)	15	19,05	30	26	--	--	90	1,0 - 1,5	2,3	3,1
Thread	BSP	8	G 1/4"	30	12	--	--	70	1,0 - 1,5	2,3	3,1
Thread	NPT	8	1/4"	30	12	--	--	70	1,0 - 1,5	2,3	3,1
Thread	BSP	8	G 3/8"	30	12	--	--	70	1,0 - 1,5	2,3	3,1
Thread	NPT	8	3/8"	30	12	--	--	70	1,0 - 1,5	2,3	3,1
Thread	NPS	8	3/8"	30	12	--	--	70	1,0 - 1,5	2,3	3,1

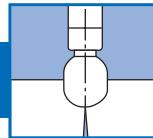
Weldon

Thread


 Combine the TANKO® RB connection NPS-thread with the weldon nipple NPSM.
 (page 26-27)

ATEX
versions + details
see page 10

TANKO® RB30



RB30

180° ↑

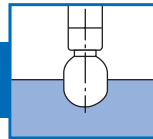
Rotating spray head, perforation 180° upwards

1.4571 (316Ti)			1.4435 (316L)		2.4602 (HC22)	
DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
10	on request	661 03 4000 4250	on request	661 03 4000 4230	on request	661 03 4000 4280
10	on request	661 03 7600 4250	on request	661 03 7600 4230	on request	661 03 7600 4280
8	on request	661 03 8900 4250	on request	661 03 8900 4230	on request	661 03 8900 4280
15	on request	661 03 4100 4650	on request	661 03 4100 4630	on request	661 03 4100 4680
10	on request	661 03 7600 4650	on request	661 03 7600 4630	on request	661 03 7600 4680
15	on request	661 03 9000 4650	on request	661 03 9000 4630	on request	661 03 9000 4680
8	on request	661 03 7500 4350	on request	661 03 7500 4330	on request	661 03 7500 4380
8	on request	661 03 7500 4450	on request	661 03 7500 4430	on request	661 03 7500 4480
8	on request	661 03 7600 4350	on request	661 03 7600 4330	on request	661 03 7600 4380
8	on request	661 03 7600 4450	on request	661 03 7600 4430	on request	661 03 7600 4480
8	on request	661 03 7600 4750	on request	661 03 7600 4730	on request	661 03 7600 4780

Material specifications for TANKO® RB such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. For the TANKO® RB made of 2.4602 (HC 22) the base plate, spray head and ball bearings are made of 2.4602 (HC 22).

ATEX
versions + details
see page 10

TANKO® RB30



RB30

180° ↓

Rotating spray head, perforation 180° downwards

1.4571 (316Ti)			1.4435 (316L)		2.4602 (HC22)	
DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
10	on request	661 03 4000 5250	on request	661 03 4000 5230	on request	661 03 4000 5280
10	on request	661 03 7600 5250	on request	661 03 7600 5230	on request	661 03 7600 5280
8	on request	661 03 8900 5250	on request	661 03 8900 5230	on request	661 03 8900 5280
15	on request	661 03 4100 5650	on request	661 03 4100 5630	on request	661 03 4100 5680
10	on request	661 03 7600 5650	on request	661 03 7600 5630	on request	661 03 7600 5680
15	on request	661 03 9000 5650	on request	661 03 9000 5630	on request	661 03 9000 5680
8	on request	661 03 7500 5350	on request	661 03 7500 5330	on request	661 03 7500 5380
8	on request	661 03 7500 5450	on request	661 03 7500 5430	on request	661 03 7500 5480
8	on request	661 03 7600 5350	on request	661 03 7600 5330	on request	661 03 7600 5380
8	on request	661 03 7600 5450	on request	661 03 7600 5430	on request	661 03 7600 5480
8	on request	661 03 7600 5750	on request	661 03 7600 5730	on request	661 03 7600 5780

Material specifications for TANKO® RB such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. For the TANKO® RB made of 2.4602 (HC 22) the base plate, spray head and ball bearings are made of 2.4602 (HC 22).

RB40

360°

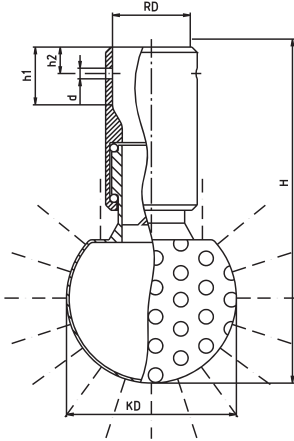


TANKO® RB40

ATEX
versions + details
see page 10

Spray head, 360°, rotating

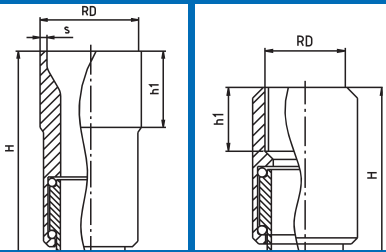
Clipon



Connec- tion	Standard DIN 11866	DN	RD Ø mm	KD Ø mm	h1 mm	h2 mm	d Ø mm	H mm	Spray dia- meter Ø m	Throughput 1,5 bar	m³/h 3 bar
Clipon	series A (DIN)	15	19,3	40	17	8	3,0	88	2,0 - 2,5	5,8	8,2
Clipon	series B (ISO)	15	21,6	40	17	8	3,0	88	2,0 - 2,5	5,8	8,2
Clipon	series C (ASME)	15	19,3	40	17	8	3,0	88	2,0 - 2,5	5,8	8,2
Weldon	series A (DIN)	20	23	40	27	--	--	102	2,0 - 2,5	5,3	7,4
Weldon	series B (ISO)	15	21,3	40	27	--	--	102	2,0 - 2,5	5,3	7,4
Weldon	series C (ASME)	15	19,05	40	27	--	--	102	2,0 - 2,5	5,3	7,4
Thread	BSP	10	G 3/8"	40	12	--	--	80	2,0 - 2,5	5,3	7,4
Thread	NPT	10	3/8"	40	12	--	--	80	2,0 - 2,5	5,3	7,4
Thread	BSP	10	G 1/2"	40	12	--	--	80	2,0 - 2,5	5,3	7,4
Thread	NPT	10	1/2"	40	12	--	--	80	2,0 - 2,5	5,3	7,4
Thread	NPS	10	1/2"	40	12	--	--	80	2,0 - 2,5	5,3	7,4

Weldon

Thread



Combine the TANKO® RB connection NPS-thread with the weldon nipple NPSM.
(page 26-27)

RB40

270° ↑

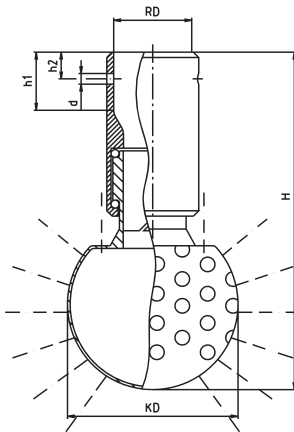


TANKO® RB40

ATEX
versions + details
see page 10

Spray head, 270° upwards, rotating

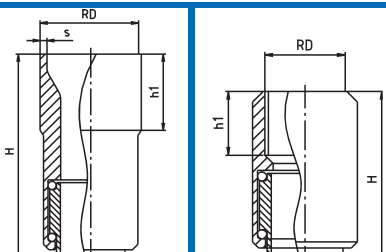
Clipon



Connec- tion	Standard DIN 11866	DN	RD Ø mm	KD Ø mm	h1 mm	h2 mm	d Ø mm	H mm	Spray dia- meter Ø m	Throughput 1,5 bar	m³/h 3 bar
Clipon	series A (DIN)	15	19,3	40	17	8	3,0	88	2,0 - 2,5	5,6	8,0
Clipon	series B (ISO)	15	21,6	40	17	8	3,0	88	2,0 - 2,5	5,6	8,0
Clipon	series C (ASME)	15	19,3	40	17	8	3,0	88	2,0 - 2,5	5,6	8,0
Weldon	series A (DIN)	20	23,0	40	27	--	--	102	2,0 - 2,5	5,1	7,2
Weldon	series B (ISO)	15	21,3	40	27	--	--	102	2,0 - 2,5	5,1	7,2
Weldon	series C (ASME)	15	19,05	40	27	--	--	102	2,0 - 2,5	5,1	7,2
Thread	BSP	10	G 3/8"	40	12	--	--	80	2,0 - 2,5	5,1	7,2
Thread	NPT	10	3/8"	40	12	--	--	80	2,0 - 2,5	5,1	7,2
Thread	BSP	10	G 1/2"	40	12	--	--	80	2,0 - 2,5	5,1	7,2
Thread	NPT	10	1/2"	40	12	--	--	80	2,0 - 2,5	5,1	7,2
Thread	NPS	10	1/2"	40	12	--	--	80	2,0 - 2,5	5,1	7,2

Weldon

Thread



Combine the TANKO® RB connection NPS-thread with the weldon nipple NPSM.
(page 26-27)

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TANKO® RB40



RB40

360°

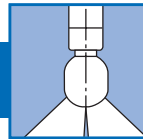
Rotating spray head, perforation 360°

1.4571 (316Ti)			1.4435 (316L)		2.4602 (HC22)	
DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
15	on request	661 04 4100 1250	on request	661 04 4100 1230	on request	661 04 4100 1280
15	on request	661 04 7700 1250	on request	661 04 7700 1230	on request	661 04 7700 1280
15	on request	661 04 9000 1250	on request	661 04 9000 1230	on request	661 04 9000 1280
20	on request	661 04 4200 1650	on request	661 04 4200 1630	on request	661 04 4200 1680
15	on request	661 04 7700 1650	on request	661 04 7700 1630	on request	661 04 7700 1680
15	on request	661 04 9000 1650	on request	661 04 9000 1630	on request	661 04 9000 1680
10	on request	661 04 7600 1350	on request	661 04 7600 1330	on request	661 04 7600 1380
10	on request	661 04 7600 1450	on request	661 04 7600 1430	on request	661 04 7600 1480
10	on request	661 04 7700 1350	on request	661 04 7700 1330	on request	661 04 7700 1380
10	on request	661 04 7700 1450	on request	661 04 7700 1430	on request	661 04 7700 1480
10	on request	661 04 7700 1750	on request	661 04 7700 1730	on request	661 04 7700 1780

Material specifications for TANKO® RB such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. For the TANKO® RB made of 2.4602 (HC 22) the base plate, spray head and ball bearings are made of 2.4602 (HC 22).

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versions + details
see page 10

TANKO® RB40



RB40

270° ↑

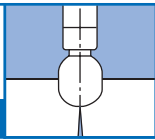
Rotating spray head, perforation 270° upwards

1.4571 (316Ti)			1.4435 (316L)		2.4602 (HC22)	
DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
15	on request	661 04 4100 2250	on request	661 04 4100 2230	on request	661 04 4100 2280
15	on request	661 04 7700 2250	on request	661 04 7700 2230	on request	661 04 7700 2280
15	on request	661 04 9000 2250	on request	661 04 9000 2230	on request	661 04 9000 2280
20	on request	661 04 4200 2650	on request	661 04 4200 2630	on request	661 04 4200 2680
15	on request	661 04 7700 2650	on request	661 04 7700 2630	on request	661 04 7700 2680
15	on request	661 04 9000 2650	on request	661 04 9000 2630	on request	661 04 9000 2680
10	on request	661 04 7600 2350	on request	661 04 7600 2330	on request	661 04 7600 2380
10	on request	661 04 7600 2450	on request	661 04 7600 2430	on request	661 04 7600 2480
10	on request	661 04 7700 2350	on request	661 04 7700 2330	on request	661 04 7700 2380
10	on request	661 04 7700 2450	on request	661 04 7700 2430	on request	661 04 7700 2480
10	on request	661 04 7700 2750	on request	661 04 7700 2730	on request	661 04 7700 2780

Material specifications for TANKO® RB such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. For the TANKO® RB made of 2.4602 (HC 22) the base plate, spray head and ball bearings are made of 2.4602 (HC 22).

RB40

180° ↑

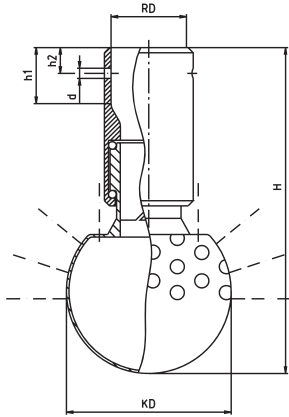


TANKO® RB40

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Spray head, 180° upwards, rotating

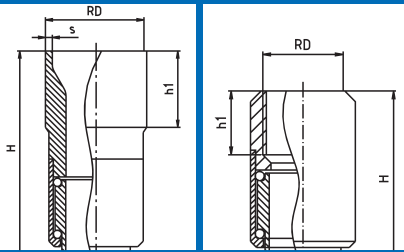
Clipon



Connec- tion	Standard DIN 11866	DN	RD Ø mm	KD Ø mm	h1 mm	h2 mm	d Ø mm	H mm	Spray dia- meter Ø m	Throughput 1,5 bar	m³/h 3 bar
Clipon	series A (DIN)	15	19,3	40	17	8	3,0	88	2,0 - 2,5	5,5	7,9
Clipon	series B (ISO)	15	21,6	40	17	8	3,0	88	2,0 - 2,5	5,5	7,9
Clipon	series C (ASME)	15	19,3	40	17	8	3,0	88	2,0 - 2,5	5,5	7,9
Weldon	series A (DIN)	20	23,0	40	27	--	--	102	2,0 - 2,5	5,0	7,1
Weldon	series B (ISO)	15	21,3	40	27	--	--	102	2,0 - 2,5	5,0	7,1
Weldon	series C (ASME)	15	19,05	40	27	--	--	102	2,0 - 2,5	5,0	7,1
Thread	BSP	10	G 3/8"	40	12	--	--	80	2,0 - 2,5	5,0	7,1
Thread	NPT	10	3/8"	40	12	--	--	80	2,0 - 2,5	5,0	7,1
Thread	BSP	10	G 1/2"	40	12	--	--	80	2,0 - 2,5	5,0	7,1
Thread	NPT	10	1/2"	40	12	--	--	80	2,0 - 2,5	5,0	7,1
Thread	NPS	10	1/2"	40	12	--	--	80	2,0 - 2,5	5,0	7,1

Weldon

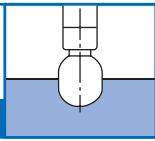
Thread



Combine the TANKO® RB connection NPS-thread with the weldon nipple NPSM.
(page 26-27)

RB40

180° ↓

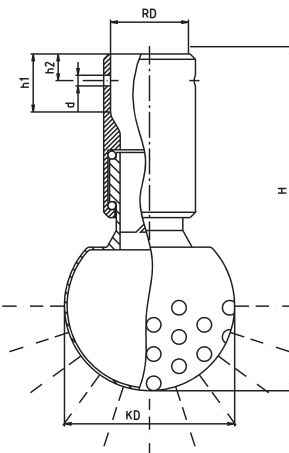


TANKO® RB40

ATEX
versions + details
see page 10

Spray head, 180° downwards, rotating

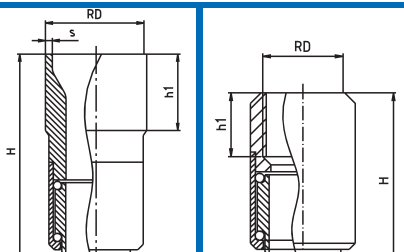
Clipon



Connec- tion	Standard DIN 11866	DN	RD Ø mm	KD Ø mm	h1 mm	h2 mm	d Ø mm	H mm	Spray dia- meter Ø m	Throughput 1,5 bar	m³/h 3 bar
Clipon	series A (DIN)	15	19,3	40	17	8	3,0	88	2,0 - 2,5	5,4	7,8
Clipon	series B (ISO)	15	21,6	40	17	8	3,0	88	2,0 - 2,5	5,4	7,8
Clipon	series C (ASME)	15	19,3	40	17	8	3,0	88	2,0 - 2,5	5,4	7,8
Weldon	series A (DIN)	20	23,0	40	27	--	--	102	2,0 - 2,5	4,9	7,0
Weldon	series B (ISO)	15	21,3	40	27	--	--	102	2,0 - 2,5	4,9	7,0
Weldon	series C (ASME)	15	19,05	40	27	--	--	102	2,0 - 2,5	4,9	7,0
Thread	BSP	10	G 3/8"	40	12	--	--	80	2,0 - 2,5	4,9	7,0
Thread	NPT	10	3/8"	40	12	--	--	80	2,0 - 2,5	4,9	7,0
Thread	BSP	10	G 1/2"	40	12	--	--	80	2,0 - 2,5	4,9	7,0
Thread	NPT	10	1/2"	40	12	--	--	80	2,0 - 2,5	4,9	7,0
Thread	NPS	10	1/2"	40	12	--	--	80	2,0 - 2,5	4,9	7,0

Weldon

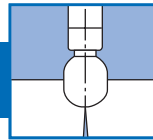
Thread



Combine the TANKO® RB connection NPS-thread with the weldon nipple NPSM.
(page 26-27)

ATEX
versions + details
see page 10

TANKO® RB40



RB40

180° ↑

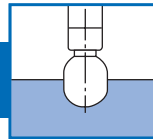
Rotating spray head, perforation 180° upwards

1.4571 (316Ti)			1.4435 (316L)		2.4602 (HC22)	
DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
15	on request	661 04 4100 4250	on request	661 04 4100 4230	on request	661 04 4100 4280
15	on request	661 04 7700 4250	on request	661 04 7700 4230	on request	661 04 7700 4280
15	on request	661 04 9000 4250	on request	661 04 9000 4230	on request	661 04 9000 4280
20	on request	661 04 4200 4650	on request	661 04 4200 4630	on request	661 04 4200 4680
15	on request	661 04 7700 4650	on request	661 04 7700 4630	on request	661 04 7700 4680
15	on request	661 04 9000 4650	on request	661 04 9000 4630	on request	661 04 9000 4680
10	on request	661 04 7600 4350	on request	661 04 7600 4330	on request	661 04 7600 4380
10	on request	661 04 7600 4450	on request	661 04 7600 4430	on request	661 04 7600 4480
10	on request	661 04 7700 4350	on request	661 04 7700 4330	on request	661 04 7700 4380
10	on request	661 04 7700 4450	on request	661 04 7700 4430	on request	661 04 7700 4480
10	on request	661 04 7700 4750	on request	661 04 7700 4730	on request	661 04 7700 4780

Material specifications for TANKO® RB such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. For the TANKO® RB made of 2.4602 (HC 22) the base plate, spray head and ball bearings are made of 2.4602 (HC 22).

ATEX
versions + details
see page 10

TANKO® RB40



RB40

180° ↓

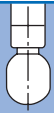
Rotating spray head, perforation 180° downwards

1.4571 (316Ti)			1.4435 (316L)		2.4602 (HC22)	
DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
15	on request	661 04 4100 5250	on request	661 04 4100 5230	on request	661 04 4100 5280
15	on request	661 04 7700 5250	on request	661 04 7700 5230	on request	661 04 7700 5280
15	on request	661 04 9000 5250	on request	661 04 9000 5230	on request	661 04 9000 5280
20	on request	661 04 4200 5650	on request	661 04 4200 5630	on request	661 04 4200 5680
15	on request	661 04 7700 5650	on request	661 04 7700 5630	on request	661 04 7700 5680
15	on request	661 04 9000 5650	on request	661 04 9000 5630	on request	661 04 9000 5680
10	on request	661 04 7600 5350	on request	661 04 7600 5330	on request	661 04 7600 5380
10	on request	661 04 7600 5450	on request	661 04 7600 5430	on request	661 04 7600 5480
10	on request	661 04 7700 5350	on request	661 04 7700 5330	on request	661 04 7700 5380
10	on request	661 04 7700 5450	on request	661 04 7700 5430	on request	661 04 7700 5480
10	on request	661 04 7700 5750	on request	661 04 7700 5730	on request	661 04 7700 5780

Material specifications for TANKO® RB such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. For the TANKO® RB made of 2.4602 (HC 22) the base plate, spray head and ball bearings are made of 2.4602 (HC 22).

RB64

360°

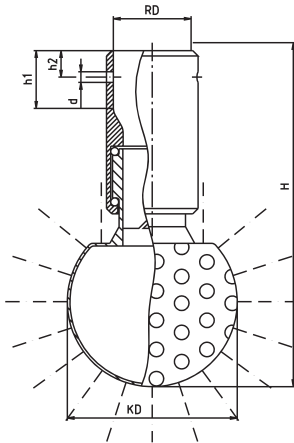


TANKO® RB64

ATEX
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see page 10

Spray head, 360°, rotating

Clipon

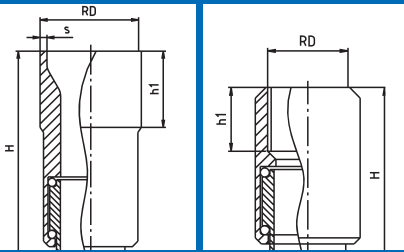


Connection	Standard DIN 11866	DN	RD Ø mm	KD Ø mm	h1 mm	h2 mm	d Ø mm	H mm	Spray dia- meter Ø m	Throughput 1,5 bar	m³/h 3 bar
Clipon	series A (DIN)	25	29,3	64	21	10	4,0	130	2,0 - 3,0	11,9	15,3
Clipon	series B (ISO)	20	27,2	64	21	10	4,0	130	2,0 - 3,0	11,9	15,3
Clipon	series C (ASME)	20	25,7	64	21	10	4,0	130	2,0 - 3,0	11,9	15,3
Weldon	series A (DIN)	32	35,0	64	27	--	--	140	2,0 - 3,0	10,9	15,1
Weldon	series B (ISO)	25	33,7	64	27	--	--	140	2,0 - 3,0	10,9	15,1
Weldon	series C (ASME)	20	25,4	64	27	--	--	140	2,0 - 3,0	10,9	15,1
Thread	BSP	20	G 3/4"	64	21	--	--	120	2,0 - 3,0	10,9	15,1
Thread	NPT	20	3/4"	64	21	--	--	120	2,0 - 3,0	10,9	15,1
Thread	NPS	20	3/4"	64	21	--	--	120	2,0 - 3,0	10,9	15,1

Combine the TANKO® RB connection NPS-thread with the weldon nipple NPSM.
(page 26-27)

Weldon

Thread



RB64

270° ↑

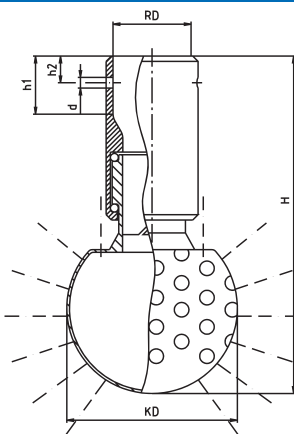


TANKO® RB64

ATEX
versions + details
see page 10

Spray head, 270° upwards, rotating

Clipon

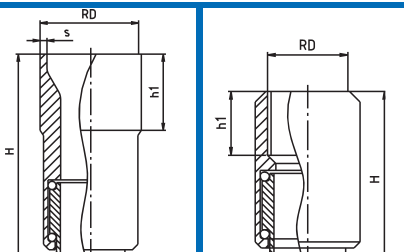


Connection	Standard DIN 11866	DN	RD Ø mm	KD Ø mm	h1 mm	h2 mm	d Ø mm	H mm	Spray dia- meter Ø m	Throughput 1,5 bar	m³/h 3 bar
Clipon	series A (DIN)	25	29,3	64	21	10	4,0	130	2,0 - 3,0	10,9	14,3
Clipon	series B (ISO)	20	27,2	64	21	10	4,0	130	2,0 - 3,0	10,9	14,3
Clipon	series C (ASME)	20	25,7	64	21	10	4,0	130	2,0 - 3,0	10,9	14,3
Weldon	series A (DIN)	32	35,0	64	27	--	--	140	2,0 - 3,0	10,0	14,1
Weldon	series B (ISO)	25	33,7	64	27	--	--	140	2,0 - 3,0	10,0	14,1
Weldon	series C (ASME)	20	25,4	64	27	--	--	140	2,0 - 3,0	10,0	14,1
Thread	BSP	20	G 3/4"	64	21	--	--	120	2,0 - 3,0	10,0	14,1
Thread	NPT	20	3/4"	64	21	--	--	120	2,0 - 3,0	10,0	14,1
Thread	NPS	20	3/4"	64	21	--	--	120	2,0 - 3,0	10,0	14,1

Combine the TANKO® RB connection NPS-thread with the weldon nipple NPSM.
(page 26-27)

Weldon

Thread



ATEX
versions + details
see page 10

TANKO® RB64



RB64

360°

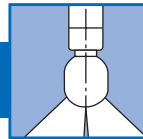
Rotating spray head, perforation 360°

1.4571 (316Ti)			1.4435 (316L)		
DN	Price/EUR	Item no.	Price/EUR	Item no.	
25	on request	661 05 4300 1250	on request	661 05 4300 1230	
20	on request	661 05 7800 1250	on request	661 05 7800 1230	
20	on request	661 05 9100 1250	on request	661 05 9100 1230	
32	on request	661 05 4400 1650	on request	661 05 4400 1630	
25	on request	661 05 7900 1650	on request	661 05 7900 1630	
20	on request	661 05 9100 1650	on request	661 05 9100 1630	
20	on request	661 05 7800 1350	on request	661 05 7800 1330	
20	on request	661 05 7800 1450	on request	661 05 7800 1430	
20	on request	661 05 7800 1750	on request	661 05 7800 1730	

Material specifications for TANKO® RB such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. For the TANKO® RB made of 2.4602 (HC 22) the base plate, spray head and ball bearings are made of 2.4602 (HC 22).

ATEX
versions + details
see page 10

TANKO® RB64



RB64

270° ↑

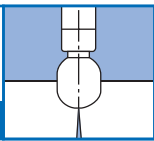
Rotating spray head, perforation 270° upwards

1.4571 (316Ti)			1.4435 (316L)		
DN	Price/EUR	Item no.	Price/EUR	Item no.	
25	on request	661 05 4300 2250	on request	661 05 4300 2230	
20	on request	661 05 7800 2250	on request	661 05 7800 2230	
20	on request	661 05 9100 2250	on request	661 05 9100 2230	
32	on request	661 05 4400 2650	on request	661 05 4400 2630	
25	on request	661 05 7900 2650	on request	661 05 7900 2630	
20	on request	661 05 9100 2650	on request	661 05 9100 2630	
20	on request	661 05 7800 2350	on request	661 05 7800 2330	
20	on request	661 05 7800 2450	on request	661 05 7800 2430	
20	on request	661 05 7800 2750	on request	661 05 7800 2730	

Material specifications for TANKO® RB such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. For the TANKO® RB made of 2.4602 (HC 22) the base plate, spray head and ball bearings are made of 2.4602 (HC 22).

RB64

180° ↑

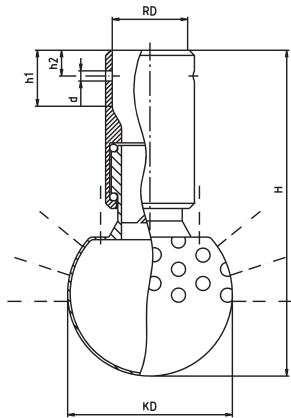


TANKO® RB64

ATEX
versions + details
see page 10

Spray head, 180° upwards, rotating

Clipon

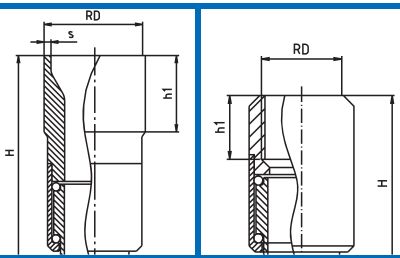


Connection	Standard DIN 11866	DN	RD Ø mm	KD Ø mm	h1 mm	h2 mm	d Ø mm	H mm	Spray dia- meter Ø m	Throughput 1,5 bar	m ³ /h 3 bar
Clipon	series A (DIN)	25	29,3	64	21	10	4,0	130	2,0 - 3,0	10,2	14,3
Clipon	series B (ISO)	20	27,2	64	21	10	4,0	130	2,0 - 3,0	10,2	14,3
Clipon	series C (ASME)	20	25,7	64	21	10	4,0	130	2,0 - 3,0	10,2	14,3
Weldon	series A (DIN)	32	35,0	64	27	--	--	140	2,0 - 3,0	9,3	13,1
Weldon	series B (ISO)	25	33,7	64	27	--	--	140	2,0 - 3,0	9,3	13,1
Weldon	series C (ASME)	20	25,4	64	27	--	--	140	2,0 - 3,0	9,3	13,1
Thread	BSP	20	G 3/4"	64	21	--	--	120	2,0 - 3,0	9,3	13,1
Thread	NPT	20	3/4"	64	21	--	--	120	2,0 - 3,0	9,3	13,1
Thread	NPS	20	3/4"	64	21	--	--	120	2,0 - 3,0	9,3	13,1

Combine the TANKO® RB connection NPS-thread with the weldon nipple NPSM.
(page 26-27)

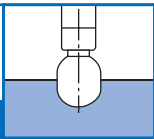
Weldon

Thread



RB64

180° ↓

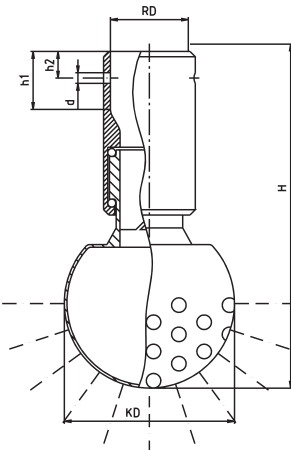


TANKO® RB64

ATEX
versions + details
see page 10

Spray head, 180° downwards, rotating

Clipon

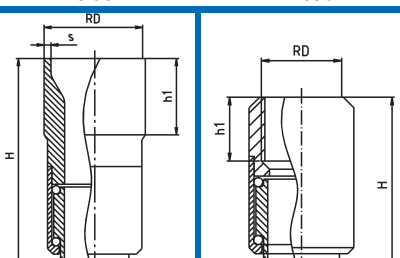


Connection	Standard DIN 11866	DN	RD Ø mm	KD Ø mm	h1 mm	h2 mm	d Ø mm	H mm	Spray dia- meter Ø m	Throughput 1,5 bar	m ³ /h 3 bar
Clipon	series A (DIN)	25	29,3	64	21	10	4,0	130	2,0 - 3,0	9,4	13,1
Clipon	series B (ISO)	20	27,2	64	21	10	4,0	130	2,0 - 3,0	9,4	13,1
Clipon	series C (ASME)	20	25,7	64	21	10	4,0	130	2,0 - 3,0	9,4	13,1
Weldon	series A (DIN)	32	35,0	64	27	--	--	140	2,0 - 3,0	8,6	12,2
Weldon	series B (ISO)	25	33,7	64	27	--	--	140	2,0 - 3,0	8,6	12,2
Weldon	series C (ASME)	20	25,4	64	27	--	--	140	2,0 - 3,0	8,6	12,2
Thread	BSP	20	G 3/4"	64	21	--	--	120	2,0 - 3,0	8,6	12,2
Thread	NPT	20	3/4"	64	21	--	--	120	2,0 - 3,0	8,6	12,2
Thread	NPS	20	3/4"	64	21	--	--	120	2,0 - 3,0	8,6	12,2

Combine the TANKO® RB connection NPS-thread with the weldon nipple NPSM.
(page 26-27)

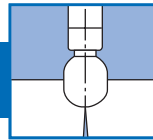
Weldon

Thread



ATEX
versions + details
see page 10

TANKO® RB64



RB64

180° ↑

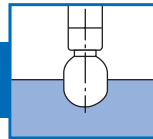
Rotating spray head, perforation 180° upwards

1.4571 (316Ti)			1.4435 (316L)		
DN	Price/EUR	Item no.	Price/EUR	Item no.	
25	on request	661 05 4300 4250	on request	661 05 4300 4230	
20	on request	661 05 7800 4250	on request	661 05 7800 4230	
20	on request	661 05 9100 4250	on request	661 05 9100 4230	
32	on request	661 05 4400 4650	on request	661 05 4400 4630	
25	on request	661 05 7900 4650	on request	661 05 7900 4630	
20	on request	661 05 9100 4650	on request	661 05 9100 4630	
20	on request	661 05 7800 4350	on request	661 05 7800 4330	
20	on request	661 05 7800 4450	on request	661 05 7800 4430	
20	on request	661 05 7800 4750	on request	661 05 7800 4730	

Material specifications for TANKO® RB such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. For the TANKO® RB made of 2.4602 (HC 22) the base plate, spray head and ball bearings are made of 2.4602 (HC 22).

ATEX
versions + details
see page 10

TANKO® RB64



RB64

180° ↓

Rotating spray head, perforation 180° downwards

1.4571 (316Ti)			1.4435 (316L)		
DN	Price/EUR	Item no.	Price/EUR	Item no.	
25	on request	661 05 4300 5250	on request	661 05 4300 5230	
20	on request	661 05 7800 5250	on request	661 05 7800 5230	
20	on request	661 05 9100 5250	on request	661 05 9100 5230	
32	on request	661 05 4400 5650	on request	661 05 4400 5630	
25	on request	661 05 7900 5650	on request	661 05 7900 5630	
20	on request	661 05 9100 5650	on request	661 05 9100 5630	
20	on request	661 05 7800 5350	on request	661 05 7800 5330	
20	on request	661 05 7800 5450	on request	661 05 7800 5430	
20	on request	661 05 7800 5750	on request	661 05 7800 5730	

Material specifications for TANKO® RB such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. For the TANKO® RB made of 2.4602 (HC 22) the base plate, spray head and ball bearings are made of 2.4602 (HC 22).

RB90

360°

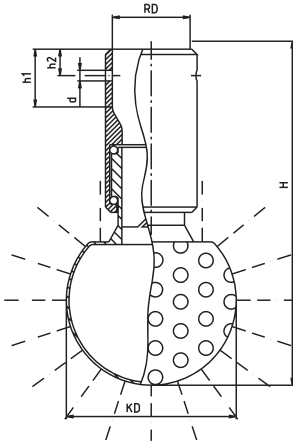


TANKO® RB90

ATEX
versions + details
see page 10

Spray head, 360°, rotating

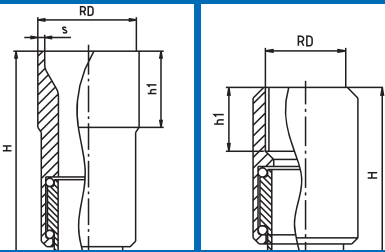
Clipon



Conne- ction	Standard DIN 11866	DN	RD Ø mm	KD Ø mm	h1 mm	h2 mm	d Ø mm	H mm	Spraydia- meter Øm	Throughput 1,5 bar	m³/h 3 bar
Clipon	series A (DIN)	40	41,3	90	28	13	5,5	183	4,0 - 5,0	20,8	28,9
Clipon	series B (ISO)	32	42,7	90	28	13	5,5	183	4,0 - 5,0	20,8	28,9
Clipon	series C (ASME)	32	38,4	90	28	13	5,5	183	4,0 - 5,0	20,8	28,9
Clipon	series 1 (DIN 11850) and old series	32	34,3	90	28	13	5,5	183	4,0 - 5,0	20,8	28,9
Clipon	series 1 (DIN 11850) and old series	40	40,3	90	28	13	5,5	183	4,0 - 5,0	20,8	28,9
Weldon	series A (DIN)	40	41	90	32	--	--	185	4,0 - 5,0	19,3	26,7
Weldon	series B (ISO)	32	42,4	90	32	--	--	185	4,0 - 5,0	19,3	26,7
Weldon	series C (ASME)	32	38,1	90	32	--	--	185	4,0 - 5,0	19,3	26,7
Thread	BSP	25	G 1"	90	25	--	--	160	4,0 - 5,0	19,3	26,7
Thread	NPT	25	1"	90	25	--	--	160	4,0 - 5,0	19,3	26,7
Thread	NPS	25	1"	90	25	--	--	160	4,0 - 5,0	19,3	26,7

Weldon

Thread



Combine the TANKO® RB connection NPS-thread with the weldon nipple NPSM.
(page 26-27)

RB90

270° ↑

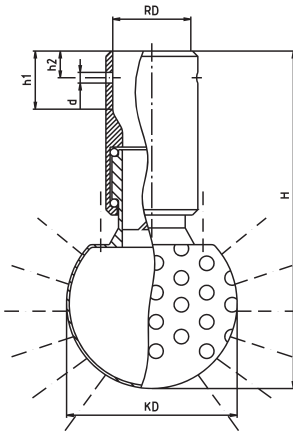


TANKO® RB90

ATEX
versions + details
see page 10

Spray head, 270° upwards, rotating

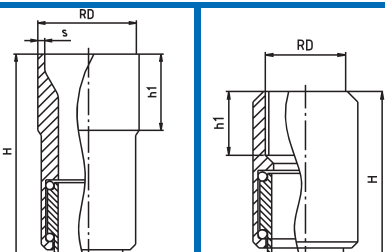
Clipon



Conne- ction	Standard DIN 11866	DN	RD Ø mm	KD Ø mm	h1 mm	h2 mm	d Ø mm	H mm	Spraydia- meter Øm	Throughput 1,5 bar	m³/h 3 bar
Clipon	series A (DIN)	40	41,3	90	28	13	5,5	183	4,0 - 4,5	20,4	28,7
Clipon	series B (ISO)	32	42,7	90	28	13	5,5	183	4,0 - 4,5	20,4	28,7
Clipon	series C (ASME)	32	38,4	90	28	13	5,5	183	4,0 - 4,5	20,4	28,7
Clipon	series 1 (DIN 11850) and old series	32	34,3	90	28	13	5,5	183	4,0 - 4,5	20,4	28,7
Clipon	series 1 (DIN 11850) and old series	40	40,3	90	28	13	5,5	183	4,0 - 4,5	20,4	28,7
Weldon	series A (DIN)	40	41	90	32	--	--	185	4,0 - 4,5	18,9	26,5
Weldon	series B (ISO)	32	42,4	90	32	--	--	185	4,0 - 4,5	18,9	26,5
Weldon	series C (ASME)	32	38,1	90	32	--	--	185	4,0 - 4,5	18,9	26,5
Thread	BSP	25	G 1"	90	25	--	--	160	4,0 - 4,5	18,9	26,5
Thread	NPT	25	1"	90	25	--	--	160	4,0 - 4,5	18,9	26,5
Thread	NPS	25	1"	90	25	--	--	160	4,0 - 4,5	18,9	26,5

Weldon

Thread



Combine the TANKO® RB connection NPS-thread with the weldon nipple NPSM.
(page 26-27)

ATEX
versions + details
see page 10

TANKO® RB90



RB90

360°

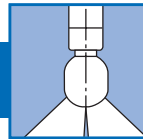
Rotating spray head, perforation 360°

1.4571 (316Ti)						
DN	Price/EUR	Item no.				
40	on request	661 06 4500 1250				
32	on request	661 06 8000 1250				
32	on request	661 06 9200 1250				
32	on request	661 06 A500 1250				
40	on request	661 06 A600 1250				
40	on request	661 06 4500 1650				
32	on request	661 06 8000 1650				
32	on request	661 06 9200 1650				
25	on request	661 06 7900 1350				
25	on request	661 06 7900 1450				
25	on request	661 06 7900 1750				

Material specifications for TANKO® RB such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. For the TANKO® RB made of 2.4602 (HC 22) the base plate, spray head and ball bearings are made of 2.4602 (HC 22).

ATEX
versions + details
see page 10

TANKO® RB90



RB90

270° ↑

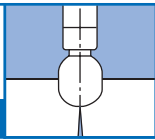
Rotating spray head, perforation 270° upwards

1.4571 (316Ti)						
DN	Price/EUR	Item no.				
40	on request	661 06 4500 2250				
32	on request	661 06 8000 2250				
32	on request	661 06 9200 2250				
32	on request	661 06 A500 2250				
40	on request	661 06 A600 2250				
40	on request	661 06 4500 2650				
32	on request	661 06 8000 2650				
32	on request	661 06 9200 2650				
25	on request	661 06 7900 2350				
25	on request	661 06 7900 2450				
25	on request	661 06 7900 2750				

Material specifications for TANKO® RB such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. For the TANKO® RB made of 2.4602 (HC 22) the base plate, spray head and ball bearings are made of 2.4602 (HC 22).

RB90

180° ↑

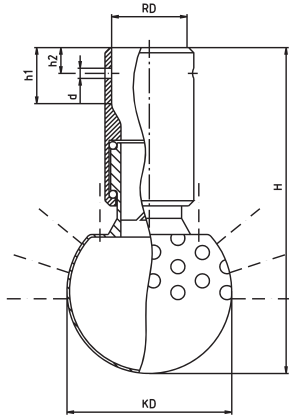


TANKO® RB90

ATEX
versions + details
see page 10

Spray head, 180° upwards, rotating

Clipon

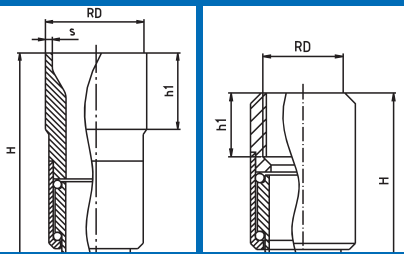


Conne- ction	Standard DIN 11866	DN	RD Ø mm	KD Ø mm	h1 mm	h2 mm	d Ø mm	H mm	Spraydia- meter Øm	Throughput 1,5 bar	m³/h 3 bar
Clipon	series A (DIN)	40	41,3	90	28	13	5,5	183	4,0 - 4,5	17,4	25,9
Clipon	series B (ISO)	32	42,7	90	28	13	5,5	183	4,0 - 4,5	17,4	25,9
Clipon	series C (ASME)	32	38,4	90	28	13	5,5	183	4,0 - 4,5	17,4	25,9
Weldon	series A (DIN)	40	41	90	32	--	--	185	4,0 - 4,5	16,9	23,7
Weldon	series B (ISO)	32	42,4	90	32	--	--	185	4,0 - 4,5	16,9	23,7
Weldon	series C (ASME)	32	38,1	90	32	--	--	185	4,0 - 4,5	16,9	23,7
Thread	BSP	25	G 1"	90	25	--	--	160	4,0 - 4,5	16,9	23,7
Thread	NPT	25	1"	90	25	--	--	160	4,0 - 4,5	16,9	23,7
Thread	NPS	25	1"	90	25	--	--	160	4,0 - 4,5	16,9	23,7

Combine the TANKO® RB connection NPS-thread with the weldon nipple NPSM.
(page 26-27)

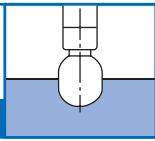
Weldon

Thread



RB90

180° ↓

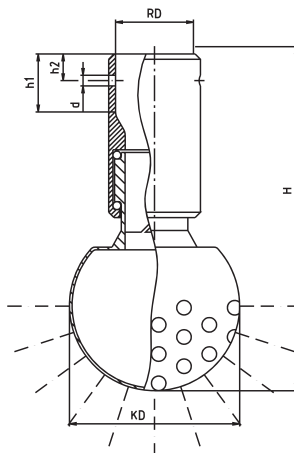


TANKO® RB90

ATEX
versions + details
see page 10

Spray head, 180° downwards, rotating

Clipon

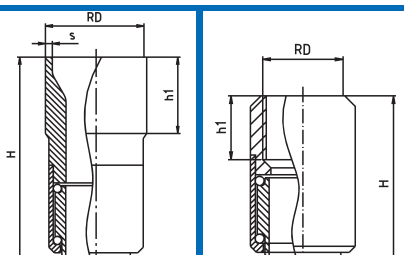


Conne- ction	Standard DIN 11866	DN	RD Ø mm	KD Ø mm	h1 mm	h2 mm	d Ø mm	H mm	Spraydia- meter Øm	Throughput 1,5 bar	m³/h 3 bar
Clipon	series A (DIN)	40	41,3	90	28	13	5,5	183	4,0 - 4,5	17,8	25,2
Clipon	series B (ISO)	32	42,7	90	28	13	5,5	183	4,0 - 4,5	17,8	25,2
Clipon	series C (ASME)	32	38,4	90	28	13	5,5	183	4,0 - 4,5	17,8	25,2
Weldon	series A (DIN)	40	41	90	32	--	--	185	4,0 - 4,5	16,3	23,0
Weldon	series B (ISO)	32	42,4	90	32	--	--	185	4,0 - 4,5	16,3	23,0
Weldon	series C (ASME)	32	38,1	90	32	--	--	185	4,0 - 4,5	16,3	23,0
Thread	BSP	25	G 1"	90	25	--	--	160	4,0 - 4,5	16,3	23,0
Thread	NPT	25	1"	90	25	--	--	160	4,0 - 4,5	16,3	23,0
Thread	NPS	25	1"	90	25	--	--	160	4,0 - 4,5	16,3	23,0

Combine the TANKO® RB connection NPS-thread with the weldon nipple NPSM.
(page 26-27)

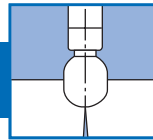
Weldon

Thread



ATEX
versions + details
see page 10

TANKO® RB90



RB90

180° ↑

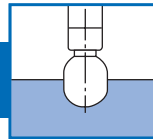
Rotating spray head, perforation 180° upwards

1.4571 (316Ti)					
DN	Price/EUR	Item no.			
40	on request	661 06 4500 4250			
32	on request	661 06 8000 4250			
32	on request	661 06 9200 4250			
40	on request	661 06 4500 4650			
32	on request	661 06 8000 4650			
32	on request	661 06 9200 4650			
25	on request	661 06 7900 4350			
25	on request	661 06 7900 4450			
25	on request	661 06 7900 4750			

Material specifications for TANKO® RB such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. For the TANKO® RB made of 2.4602 (HC 22) the base plate, spray head and ball bearings are made of 2.4602 (HC 22).

ATEX
versions + details
see page 10

TANKO® RB90



RB90

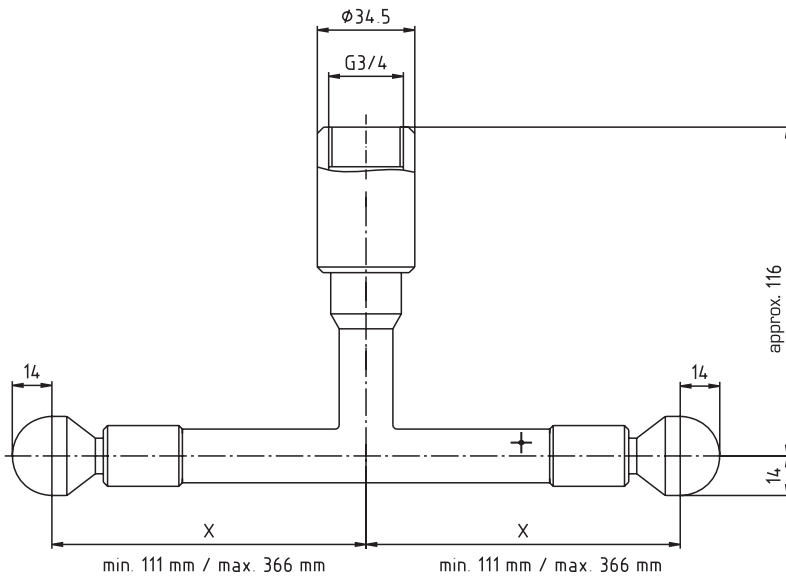
180° ↓

Rotating spray head, perforation 180° downwards

1.4571 (316Ti)					
DN	Price/EUR	Item no.			
40	on request	661 06 4500 5250			
32	on request	661 06 8000 5250			
32	on request	661 06 9200 5250			
40	on request	661 06 4500 5650			
32	on request	661 06 8000 5650			
32	on request	661 06 9200 5650			
25	on request	661 06 7900 5350			
25	on request	661 06 7900 5450			
25	on request	661 06 7900 5750			

Material specifications for TANKO® RB such as 1.4571 (316Ti), 1.4435 (316L) or 1.4404 (316L), apply only to the base plate and the spray head. The bearing balls are made of 1.4401 (316), due to their longer service life. Alternatively HC bearing balls are available; for additional charges see page 14. For the TANKO® RB made of 2.4602 (HC 22) the base plate, spray head and ball bearings are made of 2.4602 (HC 22).

Dimensions



Material:

1.4435 (316L)

Supply connection:

3/4" BSP

Connections TANKO® S30:

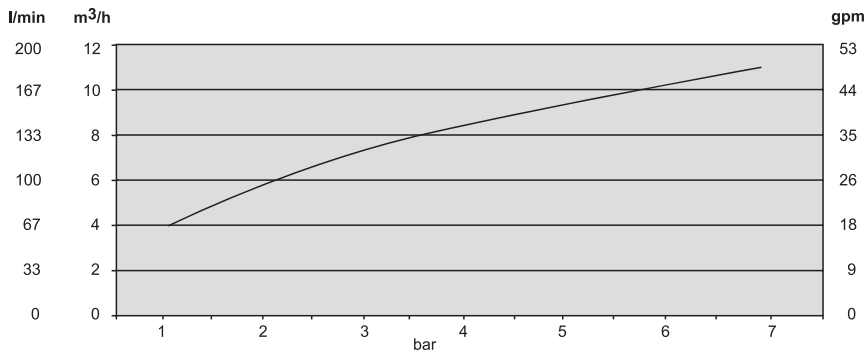
3/8" BSP

Surface:

hand-polished

The TANKO® R64T rotates on a vertical axis. Nozzles located with difficult access are optimally cleaned in connection with two TANKO® S30.

Flow rates TANKO® R64T with 2 pcs. TANKO® S30 360°



TANKO® R64T

1.4435 (316L)

Price/EUR	Item no.	X [mm]	Standard
on request	66T0 513 4131 3131	111	A
on request	66T0 513 4131 3132	201	B
on request	66T0 513 4131 3133	291	C
on request	66T0 513 4131 3134	366	D
on request	66T0 513 4131 3130	—	length depending on customers request

Combination with TANKO® S30 (separate order), see page 48 - 57

Static Spray Heads

Spray head type B 3-3



The static spray balls have proven their efficiency for barrel and vessel cleaning.

Typical fields of utilization are simple cleaning tasks at low pressure, ranging between 0.5 and 3.0 bar.

It should be considered that the choice of static spray balls is often favored, due to the lower purchasing costs.

Here, the exact analysis of the various reasons for this decision is very helpful:

- Barrel / vessel dimensions
- Utilization of the barrel or vessel
- Purchasing costs
- Operating costs (cleansing agent consumption)
- Operating costs (pump and line rating)
- Cleansing agent discharge from the vessel to be cleaned
- Cleaning time

We will gladly assist you in selecting the appropriate solution

Additionally, some information on selection and application of static spray heads:

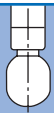
For considerable contamination, provided that rotating spray heads or jet cleaners are not yet necessary, the employment of a spray ball with an all-round spray angle of 360° is recommended.

For a lower degree of contamination, we recommend a 180° spray head that applies the cleansing agent to the upper area of the barrel or vessel. The cleansing agent flowing down rinses the lower area. For this, the installation position is decisive for selecting a spray head with 180° upwards or downwards.

Any built-in equipment and the resulting "cleaning shadows" have to be taken into account. The cleaning shadows could require installation of another spray head.

Concerning the depth for installation of the spray head the following empirical values are available:

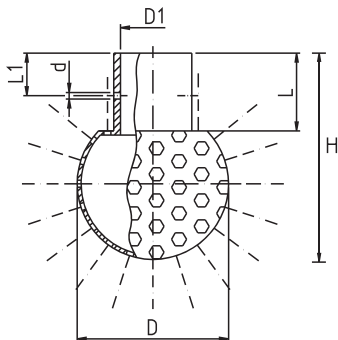
Type	Pressure at the head in bar	Installation depth in mm	weight g
M	0,5 - 1,5	200	10
X	0,5 - 1,5	300	15
Y	0,5 - 1,5	300 - 400	23
A	1,5 - 2,0	500	50
B	1,0 - 2,5	500 - 700	139
F	1,0 - 2,5	500 - 700	143
C	1,0 - 2,5	500 - 700	161
D	1,5 - 3,0	600 - 800	353



Spray heads, static, perforation 360°

Spray head, 360°

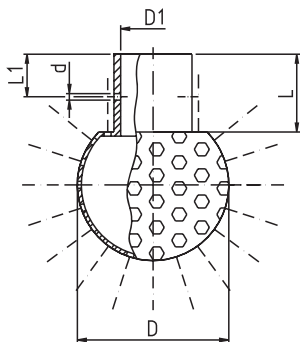
Clipon



DN	D1 mm	Ball Ø mm	d (Clip) Ø mm	H mm	L mm	L1 mm	Throughput m³/h 1 bar	Throughput m³/h 2,5 bar	Spraydiameter Øm
8	8,2	20	2,2	32,5	15	9	0,6	—	max. 0,5
10	12,2	24	2,2	37,5	17	9	2,1	—	0,5-1,0
15	18,2	30	2,2	42	18	9	4,2	—	1,0-1,5
20	22,2	40	2,5	53	21	9	7,7	12,2	2,0-2,5
25	28,2	64	2,8	90	35	18	11,0	17,3	2,0-3,0
25/1	28,2	64	2,8	90	35	18	17,5	28,1	3,0-4,0
32	34,2	64	2,8	90	35	18	16,5	19,5	2,5-3,5
32/1	34,2	64	2,8	90	35	18	21,7	32,2	3,0-4,0
40	40,3	64	2,8	90	35	18	11,8	19,2	2,5-3,5
40/1	40,3	64	2,8	90	35	18	22,8	36,8	3,0-4,0
50	52,3	90	3,3	121,5	47,5	25	28,6	41,7	4,0-5,0
50/1	52,3	90	3,3	121,5	47,5	25	49,1	67,0	6,0

Spray head, 360°

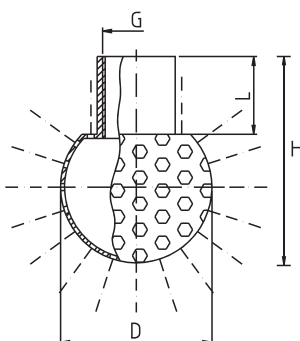
Clipon pipe DIN 11866/C (ASME)



DIN 11866 (series C)	D1 mm	Ball Ø mm	d (Clip) Ø mm	H mm	L mm	L1 mm	Throughput m³/h 1 bar	Throughput m³/h 2,5 bar	Spraydiameter Øm
1/2" (12,7 x 1,65)	13,0	30	2,2	42	18	9	4,2	—	1,0-1,5
3/4" (19,05 x 1,65)	19,4	40	2,5	53	21	9	7,7	12,2	2,0-2,5
1" (25,4 x 1,65)	26,0	64	2,8	90	35	18	11,0	17,3	2,0-3,0
1 1/2" (38,4 x 1,65)	38,4	64	2,8	90	35	18	11,8	19,2	2,5-3,5
2" (50,8 x 1,65)	52,3	90	3,3	121,5	47,5	25	28,6	41,7	4,0-5,0

Spray head, 360°

Thread



DN	G thread	Ball Ø mm	H mm	L mm	Throughput m³/h 1 bar	Throughput m³/h 2,5 bar	Spraydiameter Øm
8	G 1/8" A	20	—	—	0,6	—	max. 0,5
10	G 1/8" I	24	—	—	2,1	—	0,5-1,0
15	G 1/4" I	30	—	—	4,2	—	1,0-1,5
15	G 3/8" I	30	—	—	4,2	—	1,0-1,5
20	G 1/2" I	40	—	—	7,7	12,2	2,0-2,5
25	G 1" I	64	—	—	11,0	17,3	2,0-3,0
25/1	G 1" I	64	—	—	17,5	28,1	3,0-4,0
32	G 1" I	64	—	—	16,5	19,5	2,5-3,5
50	G 2" I	90	—	—	28,6	41,7	4,0-5,0
50/1	G 2" I	90	—	—	49,1	67,0	6,0

For thread connections approx. 10% less cleansing agent consumption.



Spray head, perforation 360°, clipon

1.4571 (316Ti)			1.4435 (316L)		2.4602 (HC22)	
DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
8	on request	69M1-1-3825	on request	69M1-1-3823		
10	on request	69X1-1-0125	on request	69X1-1-0123	on request	69X1-1-0128
15	on request	69Y1-1-0325	on request	69Y1-1-0323	on request	69Y1-1-0328
20	on request	69A2-1-0425	on request	69A2-1-0423	on request	69A2-1-0428
25	on request	69B3-1-0525	on request	69B3-1-0523	on request	69B3-1-0528
25/1	on request	69B5-1-0525	on request	69B5-1-0523		
32	on request	69F4-1-0625	on request	69F4-1-0623	on request	69F4-1-0628
32/1	on request	69F5-1-0625	on request	69F5-1-0623		
40	on request	69C4-1-0725	on request	69C4-1-0723	on request	69C4-1-0728
40/1	on request	69C5-1-0725	on request	69C5-1-0723		
50	on request	69D4-1-0825				
50/1	on request	69D5-1-0825				

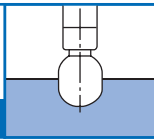
Spray head, perforation 360°, clipon pipe DIN 11866/C (ASME)

1.4571 (316Ti)			1.4435 (316L)			
	Price/EUR	Item no.	Price/EUR	Item no.		
1/2"	on request	69Y1-1-8925	on request	69Y1-1-8923		
3/4"	on request	69A2-1-9025	on request	69A2-1-9023		
1"	on request	69B3-1-9125	on request	69B3-1-9123		
1 1/2"	on request	69C4-1-9225	on request	69C4-1-9223		
2"	on request	69D4-1-9325				

Spray head, perforation 360°, thread

1.4571 (316Ti)			1.4435 (316L)		2.4602 (HC22)	
DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
8	on request	69M1-1-7485				
10			on request	69X1-1-7433		
15	on request	69Y1-1-7535	on request	69Y1-1-7533		
15	on request	69Y1-1-7635	on request	69Y1-1-7633	on request	69Y1-1-7638
20	on request	69A2-1-7735	on request	69A2-1-7733	on request	69A2-1-7738
25	on request	69B3-1-7935	on request	69B3-1-7933	on request	69B3-1-7938
25/1	on request	69B5-1-7935	on request	69B5-1-7933		
32	on request	69F4-1-7935	on request	69F4-1-7933	on request	69F4-1-7938
50	on request	69D4-1-8235				
50/1	on request	69D5-1-8235				

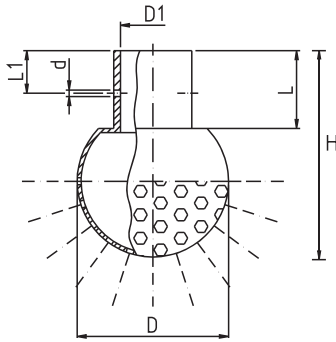
For thread connections approx. 10% less cleansing agent consumption.



Spray heads, static, perforation 180° downwards

Spray head, 180° downwards

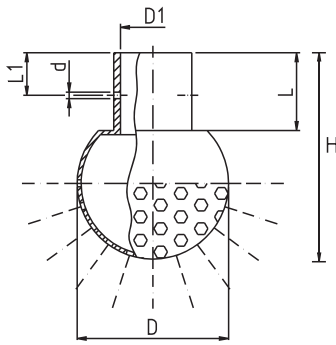
Clipon



DN	D1 mm	Ball Ø mm	d (Clip) Ø mm	H mm	L mm	L1 mm	Throughput m³/h 1 bar	Throughput m³/h 2,5 bar	Spraydiameter Øm
10	12,2	24	2,2	37,5	17	9	1,1	—	0,5-1,0
15	18,2	30	2,2	42	18	9	2,5	—	1,0-1,5
20	22,2	40	2,5	53	21	9	6,3	9,8	2,0-2,5
25	28,2	64	2,8	90	35	18	7,0	10,9	2,0-3,0
25/1	28,2	64	2,8	90	35	18	12,4	20,0	3,0-4,0
32	34,2	64	2,8	90	35	18	7,8	12,5	2,5-3,5
32/1	34,2	64	2,8	90	35	18	13,7	22,0	3,0-4,0
40	40,3	64	2,8	90	35	18	10,9	16,6	2,5-3,5
40/1	40,3	64	2,8	90	35	18	14,0	22,2	3,0-4,0
50	52,3	90	3,3	121,5	47,5	25	17,0	28,0	4,0-4,5
50/1	52,3	90	3,3	121,5	47,5	25	30,7	49,7	6,0

Spray head, 180° downwards

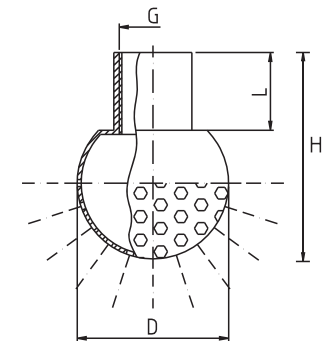
Clipon pipe DIN 11866/C (ASME)



DIN 11866 (series C)	D1 mm	Ball Ø mm	d (Clip) Ø mm	H mm	L mm	L1 mm	Throughput m³/h 1 bar	Throughput m³/h 2,5 bar	Spraydiameter Øm
1/2" (12,7 x 1,65)	13,0	30	2,2	42	18	9	2,5	—	1,0-1,5
3/4" (19,05 x 1,65)	19,4	40	2,5	53	21	9	6,3	9,8	2,0-2,5
1" (25,4 x 1,65)	26,0	64	2,8	90	35	18	7,0	10,9	2,0-3,0
1 1/2" (38,4 x 1,65)	38,4	64	2,8	90	35	18	10,9	16,6	2,5-3,5
2" (50,8 x 1,65)	52,3	90	3,3	121,5	47,5	25	17,0	28,0	4,0-5,0

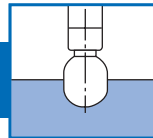
Spray head, 180° downwards

Thread



DN	G thread	Ball Ø mm	H mm	L mm	Throughput m³/h 1 bar	Throughput m³/h 2,5 bar	Spraydiameter Øm
10	G 1/8" I	24	—	—	1,1	—	0,5-1,0
15	G 1/4" I	30	—	—	2,5	—	1,0-1,5
15	G 3/8" I	30	—	—	2,5	—	1,0-1,5
20	G 1/2" I	40	—	—	6,3	9,8	2,0-2,5
25	G 1" I	64	—	—	7,0	10,9	2,0-3,0
25/1	G 1" I	64	—	—	12,4	20,0	3,0-4,0
32	G 1" I	64	—	—	7,8	12,5	2,5-3,5
50	G 2" I	90	—	—	17,0	28,0	4,0-4,5
50/1	G 2" I	90	—	—	30,7	49,7	6,0

For thread connections approx. 10% less cleansing agent consumption.



Spray head, perforation 180° downwards, clipon

1.4571 (316Ti)			1.4435 (316L)		2.4602 (HC22)	
DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
10	on request	69X1-3-0125	on request	69X1-3-0123	on request	69X1-3-0128
15	on request	69Y1-3-0325	on request	69Y1-3-0323	on request	69Y1-3-0328
20	on request	69A2-3-0425	on request	69A2-3-0423	on request	69A2-3-0428
25	on request	69B3-3-0525	on request	69B3-3-0523	on request	69B3-3-0528
25/1	on request	69B5-3-0525	on request	69B5-3-0523		
32	on request	69F4-3-0625	on request	69F4-3-0623	on request	69F4-3-0628
32/1	on request	69F5-3-0625	on request	69F5-3-0623		
40	on request	69C4-3-0725	on request	69C4-3-0723	on request	69C4-3-0728
40/1	on request	69C5-3-0725	on request	69C5-3-0723		
50	on request	69D4-3-0825				
50/1	on request	69D5-3-0825				

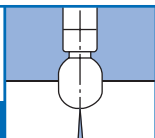
Spray head, perforation 180° downwards, clipon pipe DIN 11866/C (ASME)

1.4571 (316Ti)			1.4435 (316L)			
	Price/EUR	Item no.	Price/EUR	Item no.		
1/2"	on request	69Y1-3-8925	on request	69Y1-3-8923		
3/4"	on request	69A2-3-9025	on request	69A2-3-9023		
1"	on request	69B3-3-9125	on request	69B3-3-9123		
1 1/2"	on request	69C4-3-9225	on request	69C4-3-9223		
2"	on request	69D4-3-9325				

Spray head, perforation 180° downwards, thread

1.4571 (316Ti)			1.4435 (316L)		2.4602 (HC22)	
DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
10			on request	69X1-3-7433		
15	on request	69Y1-3-7535	on request	69Y1-3-7533		
15	on request	69Y1-3-7635	on request	69Y1-3-7633	on request	69Y1-3-7638
20	on request	69A2-3-7735	on request	69A2-3-7733	on request	69A2-3-7738
25	on request	69B3-3-7935	on request	69B3-3-7933	on request	69B3-3-7938
25/1	on request	69B5-3-7935	on request	69B5-3-7933		
32	on request	69F4-3-7935	on request	69F4-3-7933	on request	69F4-3-7938
50	on request	69D4-3-8235				
50/1	on request	69D5-3-8235				

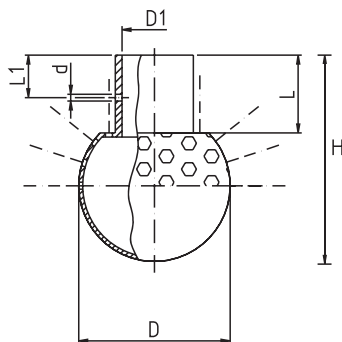
For thread connections approx. 10% less cleansing agent consumption.



Spray heads, static, perforation 180° upwards

Spray head, 180° upwards

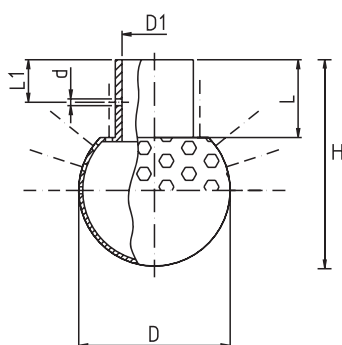
Clipon



DN	D1 mm	Ball Ø mm	d (Clip) Ø mm	H mm	L mm	L1 mm	Throughput m³/h 1 bar	Throughput m³/h 2,5 bar	Spraydiameter Øm
10	12,2	24	2,2	37,5	17	9	1,5	—	0,5-1,0
15	18,2	30	2,2	42	18	9	2,1	—	1,0-1,5
20	22,2	40	2,5	53	21	9	5,6	8,8	2,0-2,5
25	28,2	64	2,8	90	35	18	8,7	12,8	2,5-3,0
25/1	28,2	64	2,8	90	35	18	14,2	23,0	3,0-4,0
32	34,2	64	2,8	90	35	18	9,8	15,6	2,5-3,5
32/1	34,2	64	2,8	90	35	18	16,0	26,7	3,0-4,0
40	40,3	64	2,8	90	35	18	9,6	14,8	2,5-3,5
40/1	40,3	64	2,8	90	35	18	14,9	24,8	3,0-4,0
50	52,3	90	3,3	121,5	47,5	25	19,5	30,6	4,0-4,5
50/1	52,3	90	3,3	121,5	47,5	25	31,0	51,0	6,0
50/3	52,3	90	3,3	121,5	47,5	25	36,1	60,0	10,0

Spray head, 180° upwards

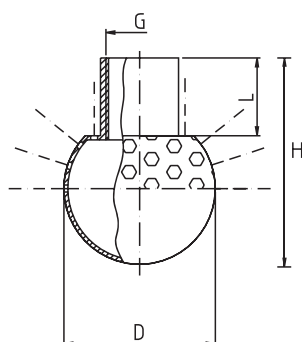
Clipon pipe DIN 11866/C (ASME)



DIN 11866 (series C)	D1 mm	Ball Ø mm	d (Clip) Ø mm	H mm	L mm	L1 mm	Throughput m³/h 1 bar	Throughput m³/h 2,5 bar	Spraydiameter Øm
1/2" (12,7 x 1,65)	13,0	30	2,2	42	18	9	2,1	—	1,0-1,5
3/4" (19,05 x 1,65)	19,4	40	2,5	53	21	9	5,6	8,8	2,0-2,5
1" (25,4 x 1,65)	26,0	64	2,8	90	35	18	8,7	12,8	2,5-3,0
1 1/2" (38,4 x 1,65)	38,4	64	2,8	90	35	18	9,6	14,8	2,5-3,5
2" (50,8 x 1,65)	52,3	90	3,3	121,5	47,5	25	19,5	30,6	4,0-4,5

Spray head, 180° upwards

Thread



DN	G thread	Ball Ø mm	H mm	L mm	Throughput m³/h 1 bar	Throughput m³/h 2,5 bar	Spraydiameter Øm
10	G 1/8" I	24	—	—	1,5	—	0,5-1,0
15	G 1/4" I	30	—	—	2,1	—	1,0-1,5
15	G 3/8" I	30	—	—	2,1	—	1,0-1,5
20	G 1/2" I	40	—	—	5,6	8,8	2,0-2,5
25	G 1" I	64	—	—	8,7	12,8	2,5-3,0
25/1	G 1" I	64	—	—	14,2	23,0	3,0-4,0
32	G 1" I	64	—	—	9,8	15,6	2,5-3,5
50	G 2" I	90	—	—	19,5	30,6	4,0-4,5
50/1	G 2" I	90	—	—	31,0	51,0	6,0
50/3	G 2" I	90	—	—	36,1	60,0	10,0

For thread connections approx. 10% less cleansing agent consumption.

Spray head, perforation 180° upwards, clipon

1.4571 (316Ti)			1.4435 (316L)		2.4602 (HC22)	
DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
10	on request	69X1-2-0125	on request	69X1-2-0123	on request	69X1-2-0128
15	on request	69Y1-2-0325	on request	69Y1-2-0323	on request	69Y1-2-0328
20	on request	69A2-2-0425	on request	69A2-2-0423	on request	69A2-2-0428
25	on request	69B3-2-0525	on request	69B3-2-0523	on request	69B3-2-0528
25/1	on request	69B5-2-0525	on request	69B5-2-0523		
32	on request	69F4-2-0625	on request	69F4-2-0623	on request	69F4-2-0628
32/1	on request	69F5-2-0625	on request	69F5-2-0623		
40	on request	69C4-2-0725	on request	69C4-2-0723	on request	69C4-2-0728
40/1	on request	69C5-2-0725	on request	69C5-2-0723		
50	on request	69D4-2-0825				
50/1	on request	69D5-2-0825				
50/3	on request	69D6-2-0825				

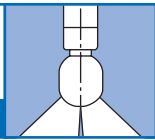
Spray head, perforation 180° upwards, clipon pipe DIN 11866/C (ASME)

1.4571 (316Ti)			1.4435 (316L)			
	Price/EUR	Item no.	Price/EUR	Item no.		
1/2"	on request	69Y1-2-8925	on request	69Y1-2-8923		
3/4"	on request	69A2-2-9025	on request	69A2-2-9023		
1"	on request	69B3-2-9125	on request	69B3-2-9123		
1 1/2"	on request	69C4-2-9225	on request	69C4-2-9223		
2"	on request	69D4-2-9325				

Spray head, perforation 180° upwards, thread

1.4571 (316Ti)			1.4435 (316L)		2.4602 (HC22)	
DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
10			on request	69X1-2-7433		
15	on request	69Y1-2-7535	on request	69Y1-2-7533		
15	on request	69Y1-2-7635	on request	69Y1-2-7633	on request	69Y1-2-7638
20	on request	69A2-2-7735	on request	69A2-2-7733	on request	69A2-2-7738
25	on request	69B3-2-7935	on request	69B3-2-7933	on request	69B3-2-7938
25/1	on request	69B5-2-7935	on request	69B5-2-7933		
32	on request	69F4-2-7935	on request	69F4-2-7933	on request	69F4-2-7938
50	on request	69D4-2-8235				
50/1	on request	69D5-2-8235				
50/3	on request	69D6-2-8235				

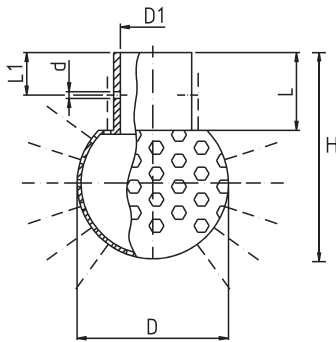
For thread connections approx. 10% less cleansing agent consumption.



Spray heads, static, perforation 270° upwards

Spray head, 270° upwards

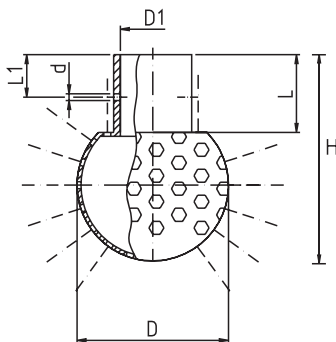
Clipon



DN	D1 mm	Ball Ø mm	d (Clip) Ø mm	H mm	L mm	L1 mm	Throughput m³/h 1 bar	Throughput m³/h 2,5 bar	Spraydiameter Øm
20	22,2	40	2,5	53	21	9	7,5	11,8	2,0-2,5
25	28,2	64	2,8	90	35	18	10,0	15,8	2,0-3,0
25/1	28,2	64	2,8	90	35	18	16,0	26,2	3,0-4,0
32	34,2	64	2,8	90	35	18	11,4	18,6	2,5-3,5
32/1	34,2	64	2,8	90	35	18	20,0	32,6	3,0-4,0
40	40,3	64	2,8	90	35	18	10,4	16,2	2,5-3,5
40/1	40,3	64	2,8	90	35	18	18,0	30,0	3,0-4,0
50	52,3	90	3,3	121,5	47,5	25	27,7	45,0	4,0-4,5
50/1	52,3	90	3,3	121,5	47,5	25	45,0	74,3	6,0

Spray head, 270° upwards

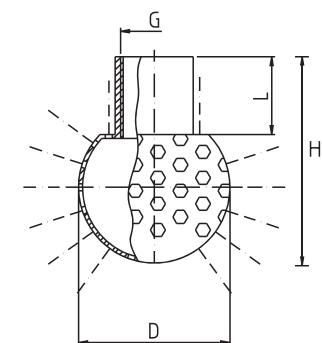
Clipon pipe DIN 11866/C (ASME)



DIN 11866 (series C)	D1 mm	Ball Ø mm	d (Clip) Ø mm	H mm	L mm	L1 mm	Throughput m³/h 1 bar	Throughput m³/h 2,5 bar	Spraydiameter Øm
3/4" (19,05 x 1,65)	19,4	40	2,5	53	21	9	7,5	11,8	2,0-2,5
1" (25,4 x 1,65)	26,0	64	2,8	90	35	18	10,0	15,8	2,0-3,0
1 1/2" (38,4 x 1,65)	38,4	64	2,8	90	35	18	10,4	16,2	2,5-3,5
2" (50,8 x 1,65)	52,3	90	3,3	121,5	47,5	25	27,7	45,0	4,0-4,5

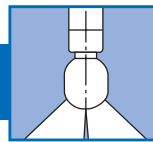
Spray head, 270° upwards

Thread



DN	G thread	Ball Ø mm	H mm	L mm	Throughput m³/h 1 bar	Throughput m³/h 2,5 bar	Spraydiameter Øm
20	G 1/2" I	40	—	—	7,5	11,8	2,0-2,5
25	G 1" I	64	—	—	10,0	15,8	2,0-3,0
25/1	G 1" I	64	—	—	16,0	26,2	3,0-4,0
32	G 1" I	64	—	—	11,4	18,6	2,5-3,5
50	G 2" I	90	—	—	27,7	45,0	4,0-4,5
50/1	G 2" I	90	—	—	45,0	74,3	6,0

For thread connections approx. 10% less cleansing agent consumption.



Spray head, perforation 270° upwards, clipon

1.4571 (316Ti)			1.4435 (316L)		2.4602 (HC22)	
DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
20	on request	69A2-4-0425	on request	69A2-4-0423	on request	69A2-4-0428
25	on request	69B3-4-0525	on request	69B3-4-0523	on request	69B3-4-0528
25/1	on request	69B5-4-0525	on request	69B5-4-0523		
32	on request	69F4-4-0625	on request	69F4-4-0623	on request	69F4-4-0628
32/1	on request	69F5-4-0625	on request	69F5-4-0623		
40	on request	69C4-4-0725	on request	69C4-4-0723	on request	69C4-4-0728
40/1	on request	69C5-4-0725	on request	69C5-4-0723		
50	on request	69D4-4-0825				
50/1	on request	69D5-4-0825				

Spray head, perforation 270° upwards, clipon pipe DIN 11866/C (ASME)

1.4571 (316Ti)			1.4435 (316L)			
	Price/EUR	Item no.	Price/EUR	Item no.		
3/4"	on request	69A2-4-9025	on request	69A2-4-9023		
1"	on request	69B3-4-9125	on request	69B3-4-9123		
1 1/2"	on request	69C4-4-9225	on request	69C4-4-9223		
2"	on request	69D4-4-9325				

Spray head, perforation 270° upwards, thread

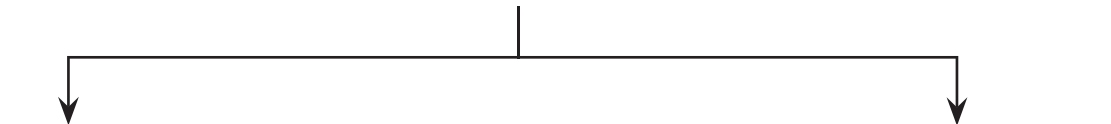
1.4571 (316Ti)			1.4435 (316L)		2.4602 (HC22)	
DN	Price/EUR	Item no.	Price/EUR	Item no.	Price/EUR	Item no.
20	on request	69A2-4-7735	on request	69A2-4-7733	on request	69A2-4-7738
25	on request	69B3-4-7935	on request	69B3-4-7933	on request	69B3-4-7938
25/1	on request	69B5-4-7935	on request	69B5-4-7933		
32	on request	69F4-4-7935	on request	69F4-4-7933	on request	69F4-4-7938
50	on request	69D4-4-8235				
50/1	on request	69D5-4-8235				

For thread connections approx. 10% less cleansing agent consumption.

Cleaning devices for particular requirements

Examples of application

- effective cleaning of tanks even with complex geometries (installations, nozzles, etc.) in the
 - pharmaceutical industry
 - food industry (breweries, dairy)
 - chemical industry (coloring, varnish, polymer processing)
- high cleaning power with adhesive products
- suitable for all vessel sizes (up to 16m diameter)



motor-powered

TANKO® JX70-2

TANKO® JX75-2

TANKO® JX80-2

(all models also available as ATEX Version)



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- efficient
- economical
- high cleaning power
- low cleansing agent consumption due to external drive
- best optimization of your cleaning process due to
 - adjustment of rotation/cycle time
 - variation of pressure area: TANKO® JX70 from 2 to 60 bar, TANKO® JX75 / JX80 from 2 to 35 bar

Materials:

- media affected 1.4571 (316Ti)
- others 1.4404 (316L)
- elastomers

Modular system for versatile customer requirements

- 1, 2, 3 or 4 nozzles
- down pipe length
- various drives (electric, pneumatic)
- process flange at customer's option
- special constructions

medium-driven

TANKO® JM100

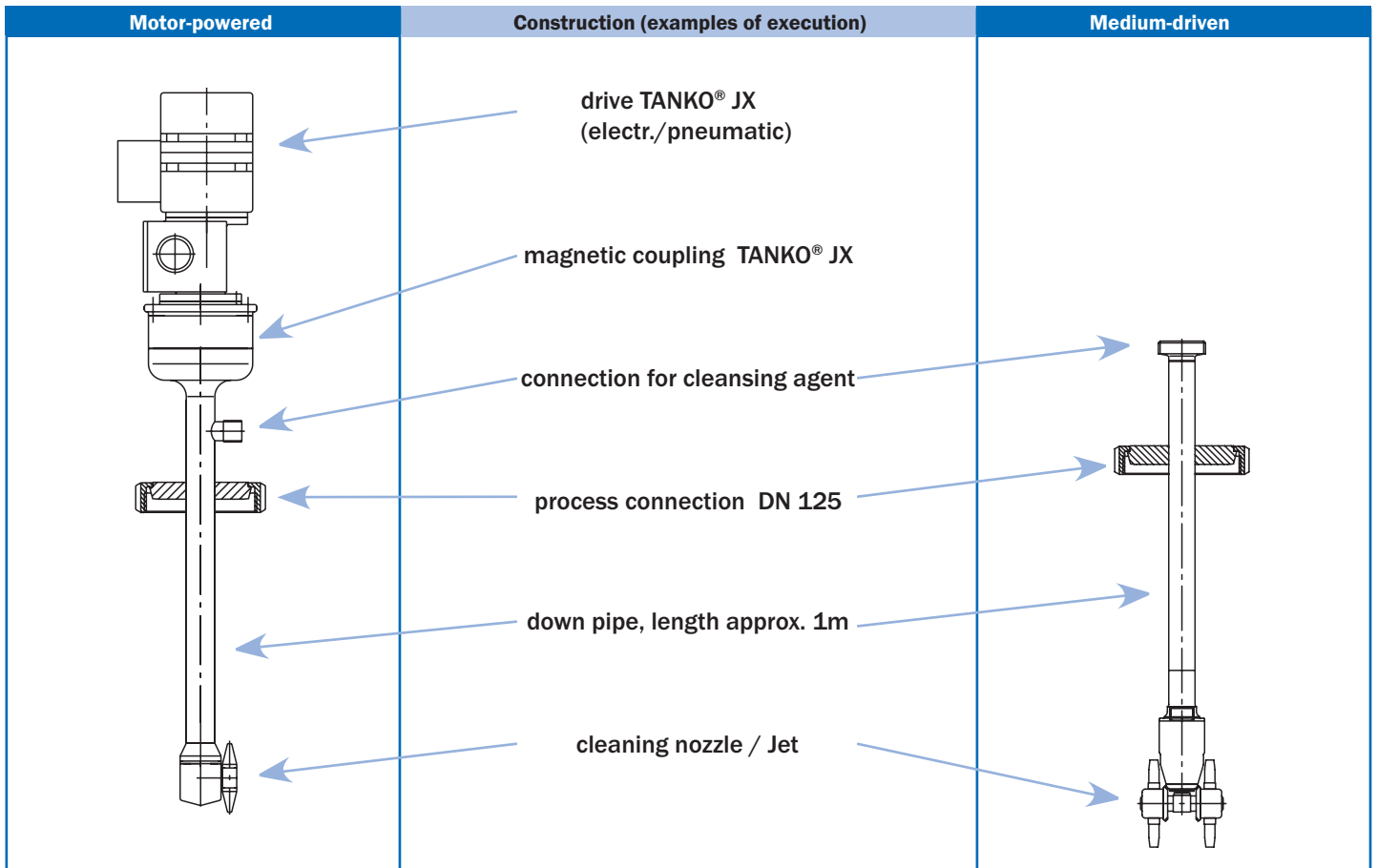
TANKO® JM500

TANKO® JM800



similar images

Comparison Jet Cleaner



similar image

TANKO® JX80		TANKO® JM500
Motor-powered		Medium-driven
incl.	Process flange DN 125	excl.
incl.	Down pipe (1 m)	excl.
incl.	Welding	excl.
on request	Jet Cleaner (Jet) list price	on request
on request	Surcharge down pipe process flange and welding	on request
100 %	Package price for entire unit (same construction)	85 %
	Materials 1.4404 (316L) or 1.4571 (316Ti) for TANKO® JX	

Technical data

Motor-powered		Medium-driven
0,5 – 10 m³/h	Consumption cleansing agent	8,1 – 29,4 m³/h
2 - 35 bar	Working pressure	3,5 - 13 bar
1, 2, 3 or 4-nozzle	System	2 x 2-nozzle
max. 8-10 m	For maximum vessel diameter up to	approx. 5 m



The combination of the technically feasible options and their interaction in connection with state-of-the-art manufacturing technology describe the AWH TANKO® JX.

Basic properties such as:

- External drive with magnetic coupling
- Dismountable device for maintenance
- Variable number of nozzles and their layout
- Adjusted installation depth into the vessel demonstrate the options of solutions for the most various customer requirements

This product group unites high cleaning power with a particularly economical handling of cleansing agent. Owing to the external electric motor, the rotation does not require cleansing agent. Hence the rotation and its speed can easily be adapted to the cleaning process. The geometry of the nozzles defines the throughput of cleansing agent, the range of the system and thus the possible cleaning power. With these systems highest cleaning power on the surface to be cleaned can be achieved.

Some important features at a glance:

- Optimized flow rate
- Magnetic coupling as a standard
- Jet head construction with an internal security system, no terminal screw required anymore
- Protection of the drive connection for preventing disturbances (important among others for the ATEX qualification approval)
- ATEX qualification approval acc. to the status in 05-2006 of the directive 94/9/EG (ATEX 95 or 100a)



Spare parts (head)			ATEX spare parts (head)		
Price/EUR	Item no.	Description	Price/EUR	Item no.	Description
on request	66C0F0E029051	Spare parts set (head) JX70	on request	66C0X0E029051	Spare parts set (head) JX70-ATEX
on request	66D0F0E029051	Spare parts set (head) JX75	on request	66D0X0E029051	Spare parts set (head) JX75-ATEX
on request	66A0F0E029051	Spare parts set (head) JX80	on request	66A0X0E029051	Spare parts set (head) JX80-ATEX

The series production provides short lead times (typically 2 – 4 weeks) at a favorable price:

TANKO® JX70 with

- Down pipe length at process connection flange: 300 mm
- 2 nozzles with each 3mm diameter
- Materials: 1.4571 (316Ti), PTFE, EPDM
- IP 54 – 230V-400V electric motor with 14 RPM.
- Process connection: DN 80 acc. to DIN 11851
- Cleansing agent connection: 1/2" thread

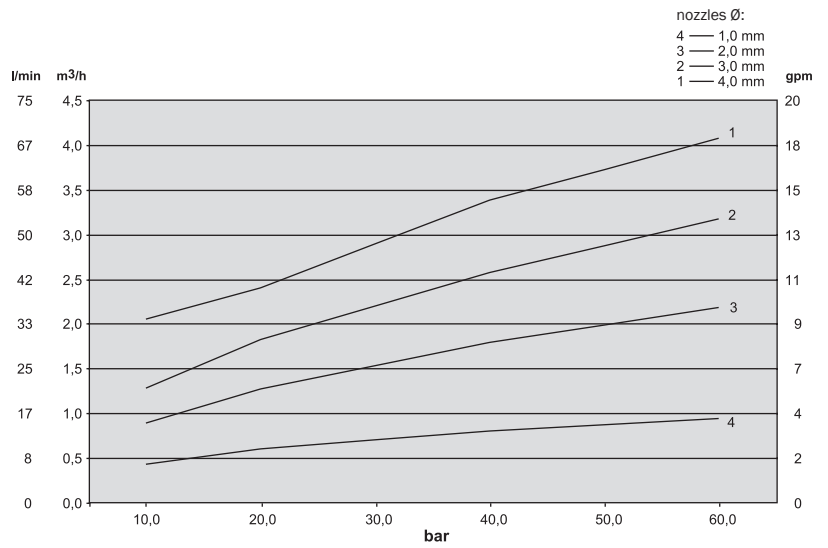
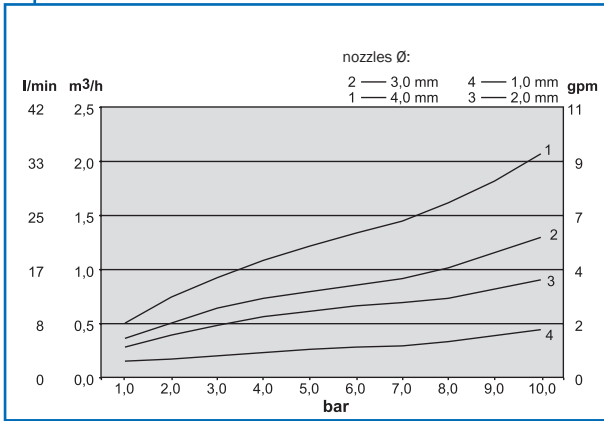
Price on request / piece

TANKO® JX80 with

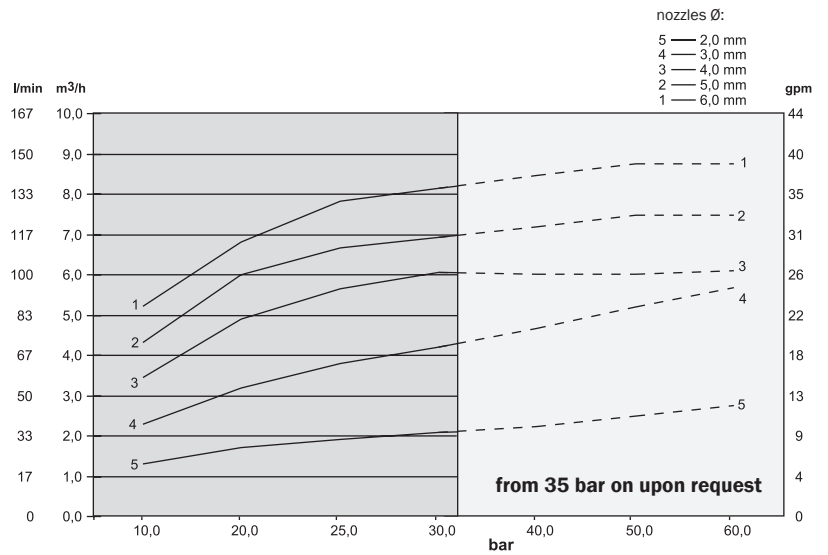
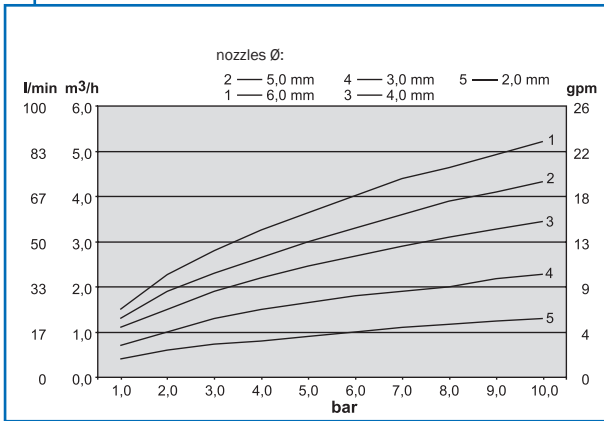
- Down pipe length at process connection flange: 500 mm
- 2 nozzles with each 3mm diameter
- Materials: 1.4571 (316Ti), PTFE, EPDM
- IP 54 – 230V-400V electric motor with 14 RPM.
- Process connection: DN 125 acc. to DIN 11851
- Cleansing agent connection: 3/4" thread

Price on request / piece

TANKO® JX70 2-nozzles



TANKO® JX75 / 80 2-nozzles

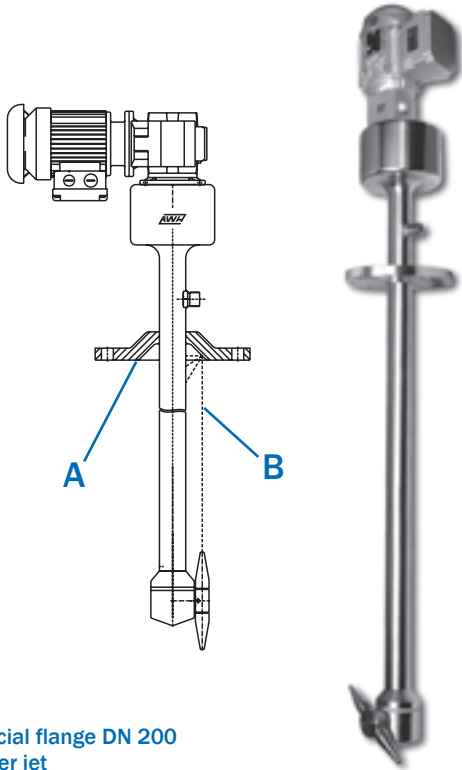


The standard product description (technical modifications possible)

	TANKO® JX70	TANKO® JX75	TANKO® JX80
Stainless steel grades	1.4571 (316Ti) 1.4435 (316L) 1.4404 (316L) HC 4 HC 22	1.4571 (316Ti) 1.4435 (316L) 1.4404 (316L) HC 4 HC 22	1.4571 (316Ti) 1.4435 (316L) 1.4404 (316L) HC 4 HC 22
Operating pressure	2 – 60 bar	2 – 35 bar	2 – 35 bar
Maximum working temperature	110 °C	110 °C	110 °C
Drive	electric or pneumatic	electric or pneumatic	electric or pneumatic
Minimum installation dimensions	58 mm	98 mm	110 mm
Installation depth (typically)	from 300 to 1000 mm	from 300 to 4000 mm	from 300 to 4000 mm

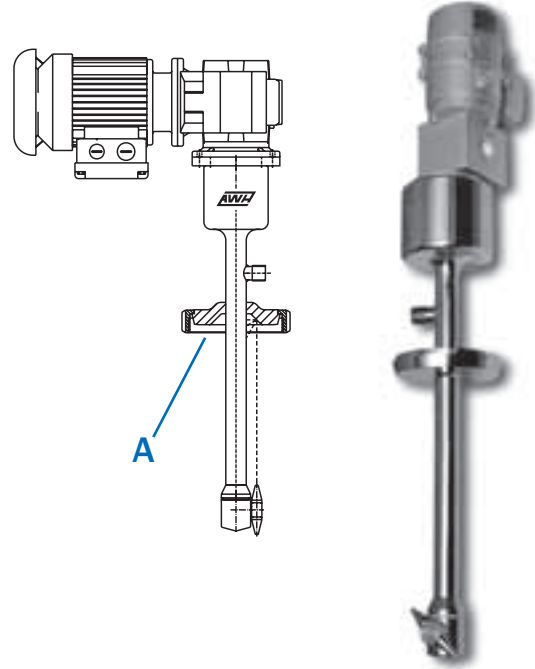
Examples of execution (execution varies acc. to customer requirements)

TANKO® JX80



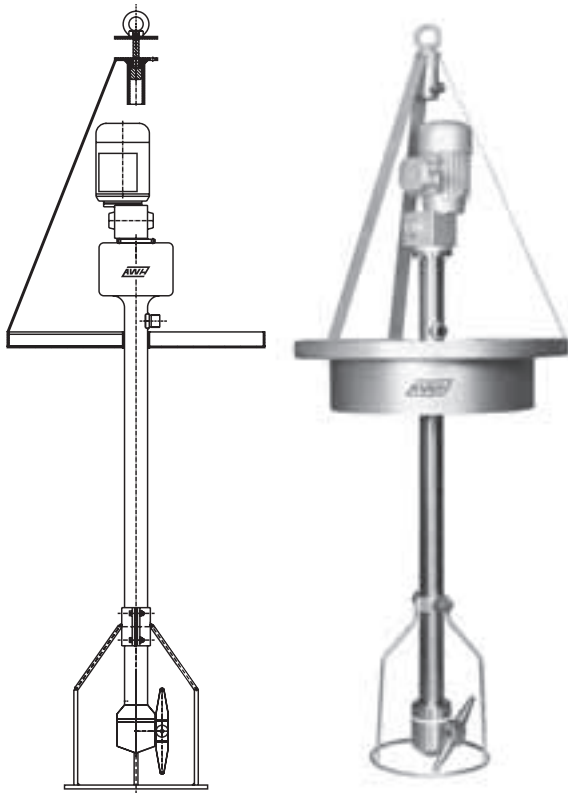
A Special flange DN 200
B Water jet

TANKO® JX70

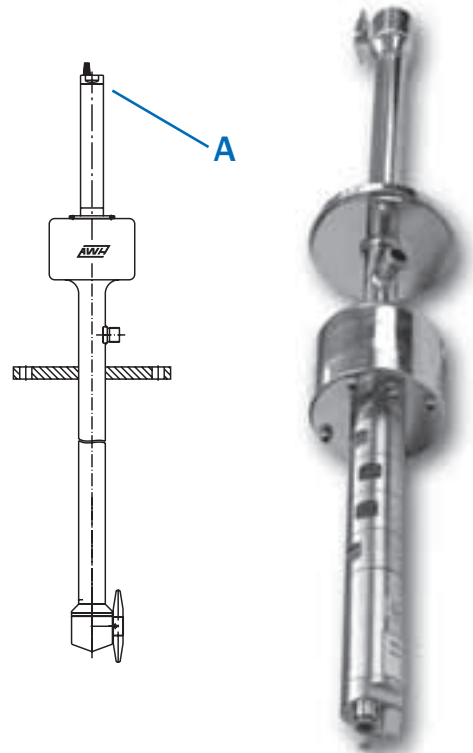


A Screw connection DN 100

TANKO® JX80-TW



TANKO® JX



A ATLAS-Copco pneumatic drive

Operating parameter	TANKO® JX70	TANKO® JX75	TANKO® JX80
Maximum vessel diameter	1,5-2 m	6-8 m	max. 8-10 m
Maximum working temperature of cleansing agent	110 °C	110 °C	110 °C
Maximum ambient temperature	180 °C	180 °C	180 °C
Maximum ambient temperature of motor	60 °C	60 °C	60 °C
Cleansing agent	water	water	water
Working pressure	2-60 bar	2-35 bar	2-35 bar
The device is planned according to your requirements:			
Process flange	acc. to DIN 11851 DN 80 screw connection optionally: · DIN 11851 DN 100 · Clamp lid acc. to DIN 32676 DN 65 up to 150 · flange acc. to DIN 2527 DN 80	acc. to DIN 11851 DN 125 screw connection optionally: · DIN 11851 DN 100 / 150 · Clamp lid acc. to DIN 32676 DN 100 / 125 / 150 · flange acc. to DIN 2527 DN 100 / 125 / 150	acc. to DIN 11851 DN 125 screw connection optionally: · DIN 11851 DN 150 / 200 · Clamp lid acc. to DIN 32676 DN 125 / 150 · flange acc. to DIN 2527 DN 100 / 125 / 150
Cleansing agent connection	1/2" BSP male thread · other upon request	3/4" BSP male thread · other upon request	3/4" BSP male thread · other upon request
Length of down pipe	300 mm optional: 500 mm (other up to 1000 mm on request)	500 mm optional: 750 mm, 1000 mm (other from 300 - 1200 on request)	500 mm optional: 750 mm, 1000 mm (other from 300 - 1200 on request)
Down pipe extension	---	500 / 1000, other on request	500 / 1000, other on request
Number of nozzles	2 optional: 1, 3 or 4	2 optional: 3 or 4	2 optional: 3 or 4
Nozzle diameter	1,0 - 4,0 mm depends on expected cleaning performance	2,0 - 8,0 mm depends on expected cleaning performance	2,0 - 8,0 mm depends on expected cleaning performance
Motor	45 W RGM-Motor, 230/400 V, 50 Hz, IP 54; 14 RPM -> 124s per cycle optional: · 90 W RGM-Motor; · SEW-motors; · other rotation speed / protection systems; · Execution with frequency converter; · compressed air motor	90 W RGM-Motor, 230/400 V, 50 Hz, IP 54; 14 RPM -> 124s per cycle optional: · 120 W RGM-Motor; · SEW-motors; · other rotation speed/ protection systems; · Execution with frequency converter; · compressed air motor	90 W RGM-Motor, 230/400 V, 50 Hz, IP 54; 14 RPM -> 124s per cycle optional: · 120 W RGM-Motor; · SEW-motors; · other rotation speed / protection systems; · Execution with frequency converter; · compressed air motor
Materials basic device - media affected - exterior	1.4571 (316Ti) 1.4404 (316L), 1.4301 (304)	1.4571 (316Ti) 1.4404 (316L), 1.4301 (304)	1.4571 (316Ti) 1.4404 (316L), 1.4301 (304)
Ball bearing	1.4571 (316Ti) / PEEK optional: · 1.4571 or higher grade up to 95 °C; · 1.4571 with Minlon cage up to 60 °C, ATEX-compliant; · 1.4571 with Acetal cage up to 80 °C, FDA-conform	1.4571 (316Ti) / PEEK optional: · 1.4571 or higher grade up to 95 °C; · 1.4571 with Minlon cage up to 60 °C, ATEX-compliant; · 1.4571 with Acetal cage up to 80 °C, FDA-conform	1.4571 (316Ti) / PEEK optional: · 1.4571 or higher grade up to 95 °C; · 1.4571 with Minlon cage up to 60 °C, ATEX-compliant; · 1.4571 with Acetal cage up to 80 °C, FDA-conform
Seal (O-Ring)	EPDM (FDA-conform) optional: · FKM (Viton) · FKM with FEP coat	EPDM (FDA-conform) optional: · FKM (Viton) · FKM with FEP coat	EPDM (FDA-conform) optional: · FKM (Viton) · FKM with FEP coat
Thrust discs	A500 (FDA-conform) optional: XTM (ATEX-compliant)	A500 (FDA-conform) optional: XTM (ATEX-compliant)	A500 (FDA-conform) optional: XTM (ATEX-compliant)
Bushing	PTFE, PEEK	PTFE, PEEK	PTFE, PEEK
Additionally, we can deliver:			
Certificates	material and roughness certificates see pages 12 - 13		

Conversion table

Pressure

bar	psi
1	15
2	29
3	44
4	58
5	73
6	87
7	102
8	116
9	131
10	145
11	160
12	174
13	189
14	203
15	218
16	232
17	247
18	261
19	276
20	290
21	305
22	319
23	334
24	348
25	363
26	377
27	392
28	405
29	421
30	435
31	450
32	464
33	479
34	493
35	508
36	522
37	537
38	551
39	566
40	580
41	595
42	609
43	624
44	638
45	653
46	667
47	682
48	696
49	711
50	725
51	740
52	754

Volume Flow Rate

m ³ /h	gal/min (gpm, US)	l/min
1	4,4	16,7
2	8,8	33,3
3	13,2	50,0
4	17,6	66,7
5	22,0	83,3
6	26,4	100,0
7	30,8	116,7
8	35,2	133,3
9	39,6	150,0
10	44,0	166,7
11	48,4	183,3
12	52,8	200,0
13	57,2	216,7
14	61,6	233,3
15	66,0	250,0
16	70,4	266,7
17	74,9	283,3
18	79,3	300,0
19	83,7	316,7
20	88,1	333,3
21	92,5	350,0
22	96,9	366,7
23	101,3	383,3
24	105,7	400,0
25	110,1	416,7
26	114,5	433,3
27	118,9	450,0
28	123,3	466,7
29	127,7	483,3
30	132,1	500,0
31	136,5	516,7
32	140,9	533,3
33	145,3	550,0
34	149,7	566,7
35	154,1	583,3
36	158,5	600,0
37	162,9	616,7
38	167,3	633,3
39	171,7	650,0
40	176,1	666,7
41	180,5	683,3
42	184,9	700,0
43	189,3	716,7
44	193,7	733,3
45	198,1	750,0
46	202,5	766,7
47	206,9	783,3
48	211,3	800,0
49	215,7	816,7
50	220,2	833,3
51	224,6	850,0
52	229,0	866,7

Medium-driven jet cleaners TANKO® JM

Medium-driven jet cleaners facilitate a particularly good and economically efficient choice for the appropriate application. With these devices a rotary power is generated by means of both, the cleansing agent flow and pressure. This is translated onto two axes, thus resulting in a real 360° rotation of the nozzles. **TANKO® JM** jet cleaners are manufactured in material grade 316 L - Ra < 0,8 µm. The options of technical design are based on the nozzle geometry (length and diameter) in connection with the cleansing agent pressure. The design and selection of a suitable system is defined together with the user. A detailed analysis of the cleaning tasks forms the basis to find an economically efficient cleansing concept.

The **TANKO® JM100** provides a cleaning diameter of typically 2 - 3 m and a considerably high cleansing agent impact. After every 360° rotation the jet starts at a slightly staggered place to return exactly to its starting point after 45 rotations. The **TANKO® JM100** can be run at a cleansing agent pressure of 3 bar and above (max. 20 bar). The maximum flow rate of 6,5 m³/h



TANKO® JM500 at very low operating pressure (similar image)

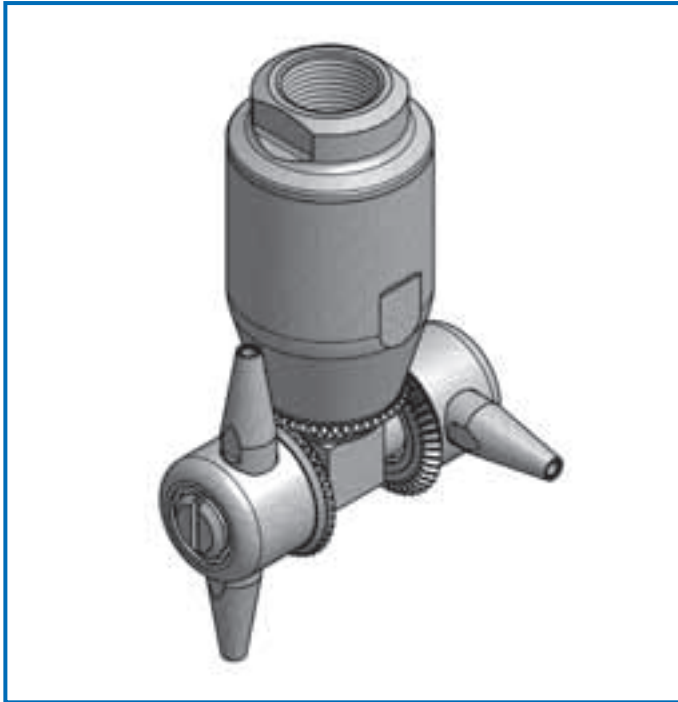
at a maximum working temperature of 121° C describes the economical efficiency and the broad range of possible applications.

The **TANKO® JM500** corresponds to **TANKO® JM100** in terms of functionality. However, the larger construction enables the use of much higher amounts of cleansing agent. The **TANKO® JM500** provides a cleaning diameter of 4 - 5 m.

The robust concept of the **TANKO® JM800** is ideal for large vessels up to a diameter of 16 m. The 3 nozzle concept facilitates feeding the tank within the pressure range of 5 to 13 bar with larger amounts of cleansing agent with a directed 360° jet system. Hence, cleaning with subsequent rinsing is ensured.



TANKO® JM800 at very low operating pressure (similar image)



The TANKO® JM100 is a 360° angle Jet Cleaner. Its compact design allows the installation of the TANKO® JM100 into tanks with only DN100 flanges. Constructed for best cleaning results with high impact performance, self-cleaning and with low consumption values.

Material

1.4404 (316L), 1.4401 (316),
1.4571 (316 Ti) - 3.1 Certificate
on request, PTFE und PEEK + PTFE
(FDA-conform)

Volume flow rate [m³/h]

1,9 - 6,5

Volume flow rate [l/min]

32 - 108

Connection

3/4" BSP- or NPT-thread

Number of revolutions (RPM)

5 - 20

Operating pressure (bar)

3,0 - 20

**Recommended max. diameter
for cleaning**

typical up to 2 m; max. 3 m

Max. working temperature (°C)

121

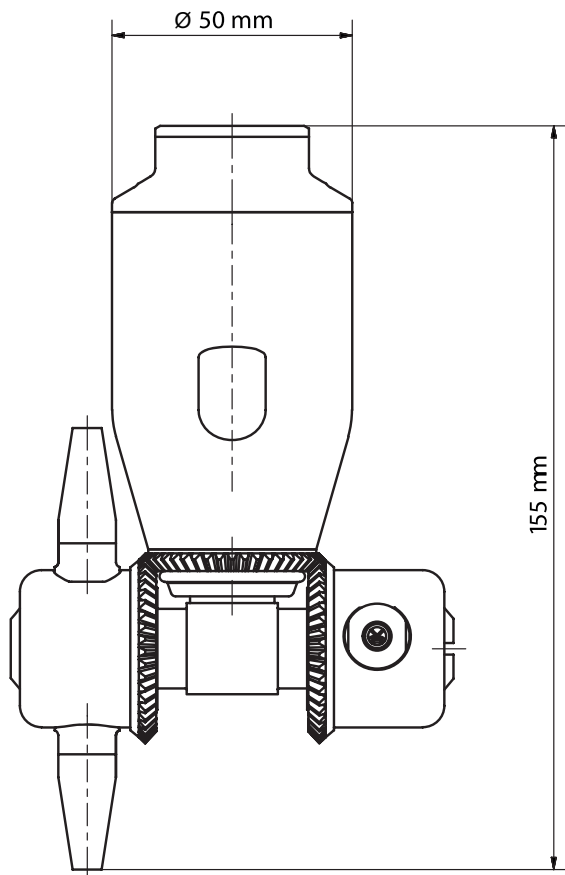
Installation position

vertical, other on request

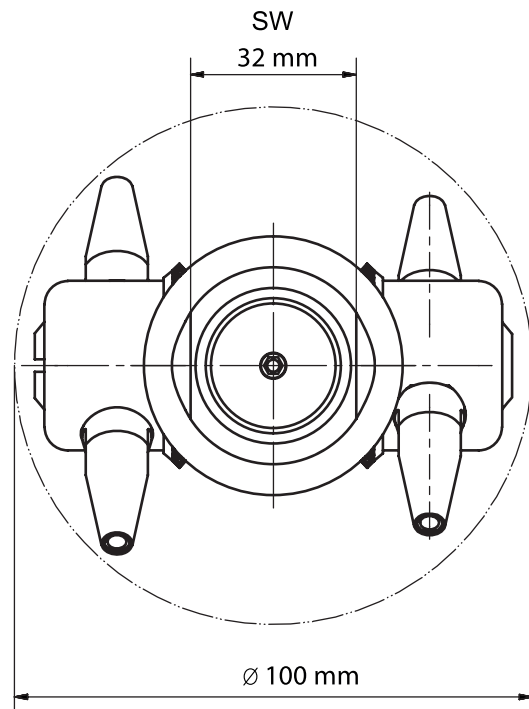
Weight (kg)

1,2

TANKO® JM100 dimensions

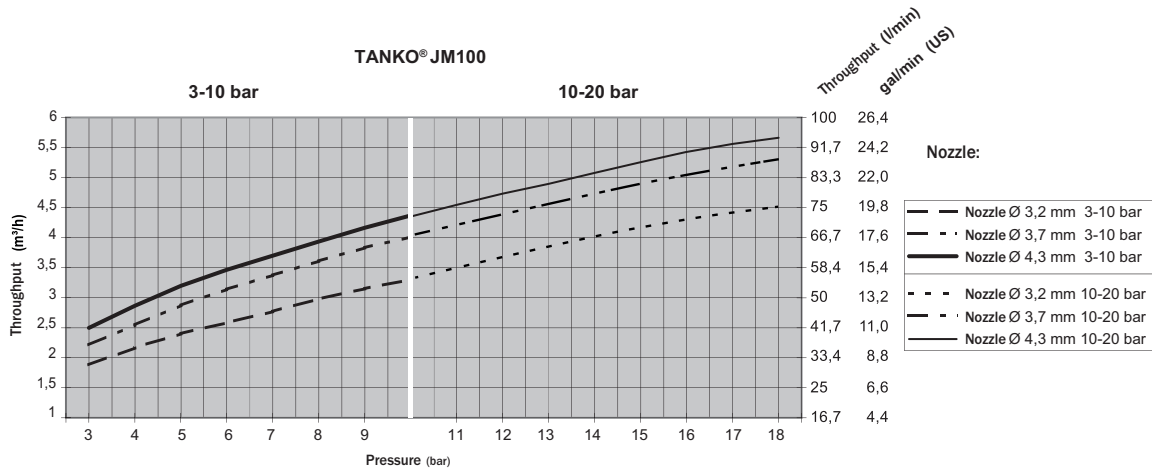


TANKO® JM100 min. installation dimensions



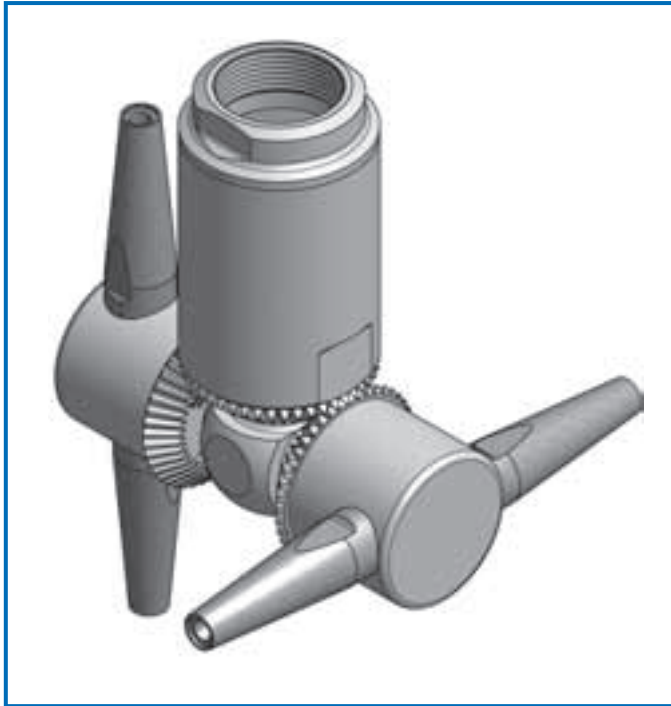
SW = wrench key width

Consumption



Medium-driven jet cleaner TANKO® JM100

	Price/EUR	Item no.	Description	Connection
	on request	668 160 3NG ZOK 020	TANKO® JM100-G22 with 2x2 nozzles Ø3,2mm 3-10 bar slide bearing	3/4" BSP (female thread)
	on request	668 160 3NG ZOM 020	TANKO® JM100-G22 with 2x2 nozzles Ø3,7mm 3-10 bar slide bearing	3/4" BSP (female thread)
	on request	668 160 3NG ZOP 020	TANKO® JM100-G22 with 2x2 nozzles Ø4,3mm 3-10 bar slide bearing	3/4" BSP (female thread)
	on request	668 160 3HG ZOK 020	TANKO® JM100-G22 with 2x2 nozzles Ø3,2mm 10-20 bar slide bearing	3/4" BSP (female thread)
	on request	668 160 3HG ZOM 020	TANKO® JM100-G22 with 2x2 nozzles Ø3,7mm 10-20 bar slide bearing	3/4" BSP (female thread)
	on request	668 160 3HG ZOP 020	TANKO® JM100-G22 with 2x2 nozzles Ø4,3mm 10-20 bar slide bearing	3/4" BSP (female thread)
	on request	668 160 4NG ZOK 020	TANKO® JM100-G22 with 2x2 nozzles Ø3,2mm 3-10 bar slide bearing	3/4" NPT (female thread)
	on request	668 160 4NG ZOM 020	TANKO® JM100-G22 with 2x2 nozzles Ø3,7mm 3-10 bar slide bearing	3/4" NPT (female thread)
	on request	668 160 4NG ZOP 020	TANKO® JM100-G22 with 2x2 nozzles Ø4,3mm 3-10 bar slide bearing	3/4" NPT (female thread)
	on request	668 160 4HG ZOK 020	TANKO® JM100-G22 with 2x2 nozzles Ø3,2mm 10-20 bar slide bearing	3/4" NPT (female thread)
	on request	668 160 4HG ZOM 020	TANKO® JM100-G22 with 2x2 nozzles Ø3,7mm 10-20 bar slide bearing	3/4" NPT (female thread)
	on request	668 160 4HG ZOP 020	TANKO® JM100-G22 with 2x2 nozzles Ø4,3mm 10-20 bar slide bearing	3/4" NPT (female thread)
Spare parts set				
	on request	668 160 00G V00 000	Ware parts set	
	on request	664 MWJ 132 000 0	Assembly- disassembly -tools for rotor	
	on request	664 BA J100 00DT	Operating manual german	
	on request	664 BA J100 00EN	Operating manual english	
Spare parts set for ORBI G4				
	on request	6775-1861-spk-2	Ware parts set ORBI G4	
	on request	6775-186 11010	Assembly- Disassembly -tools for drive system for ORBI G4	



The TANKO® JM500 belongs to the new generation of 360° jet cleaners. It completes the product range for applications that require high impact performance as well as a higher cleansing agent volume for rinsing. The state-of-the-art design allows a flexible adjustment to any application of this type.

Material

1.4404 (316L), 1.4401 (316),
1.4571 (316 Ti) - 3.1 Certificate
on request, PTFE und PEEK + PTFE
PA (Nylon), (FDA-conform)

Connection

1 1/2" BSP- or NPT-thread

Operating pressure (bar)

3,5 - 13

Max. working temperature (°C)

121

Weight (kg)

5,2

Volume flow rate [m³/h]

8,1 - 29,4

Volume flow rate [l/min]

135 - 490

Number of revolutions (RPM)

5 - 20

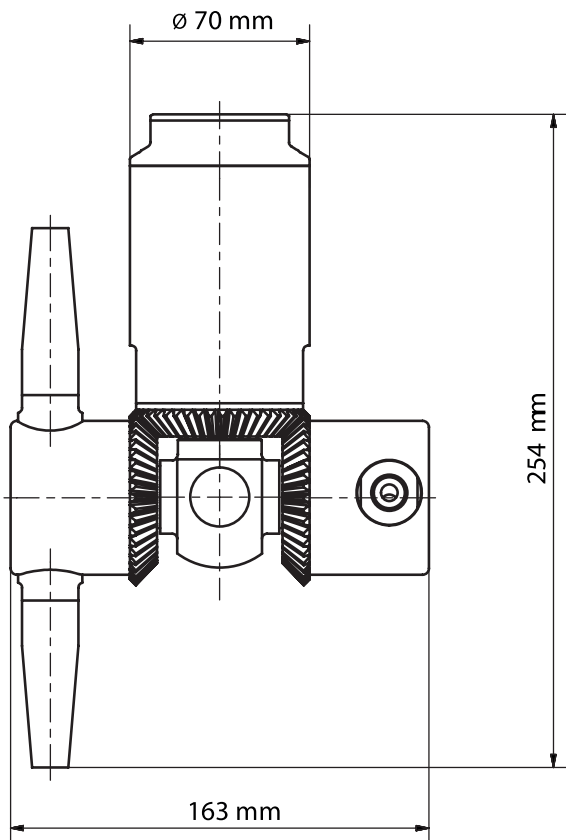
**Recommended max. diameter
for cleaning**

typical up to 4 m; max. 5 m

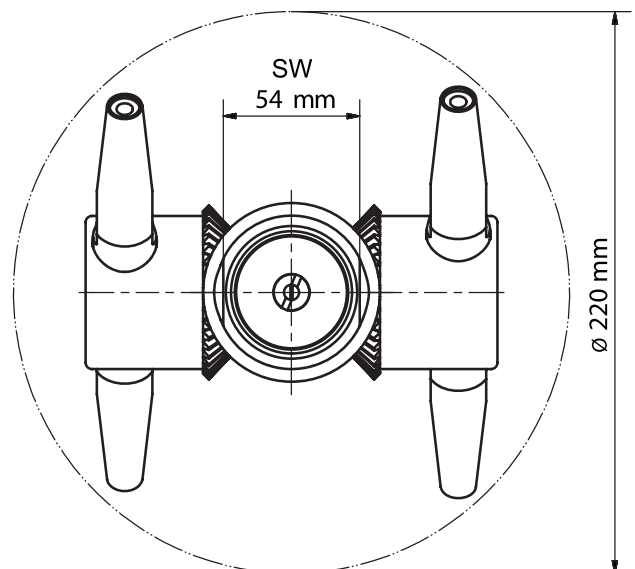
Installation position

vertical, other upon request

TANKO® JM500 dimensions

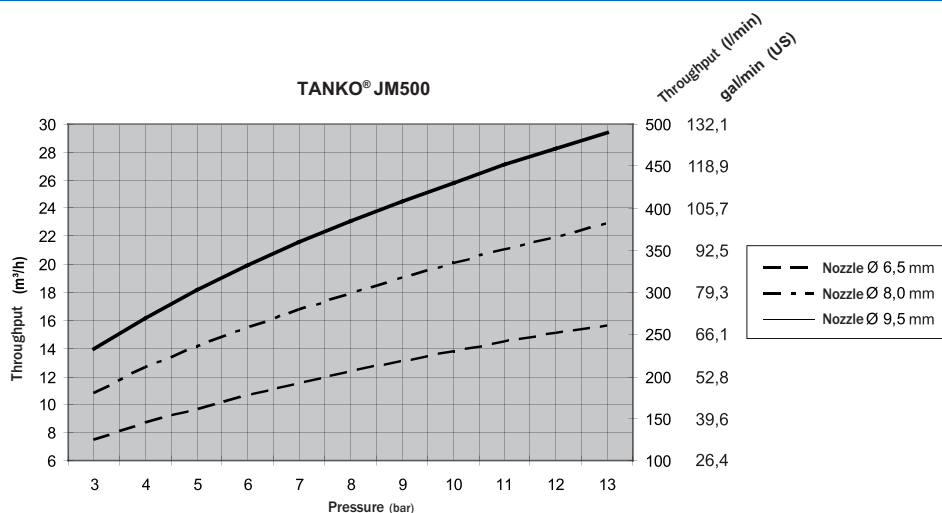


TANKO® JM500 min. installation dimensions



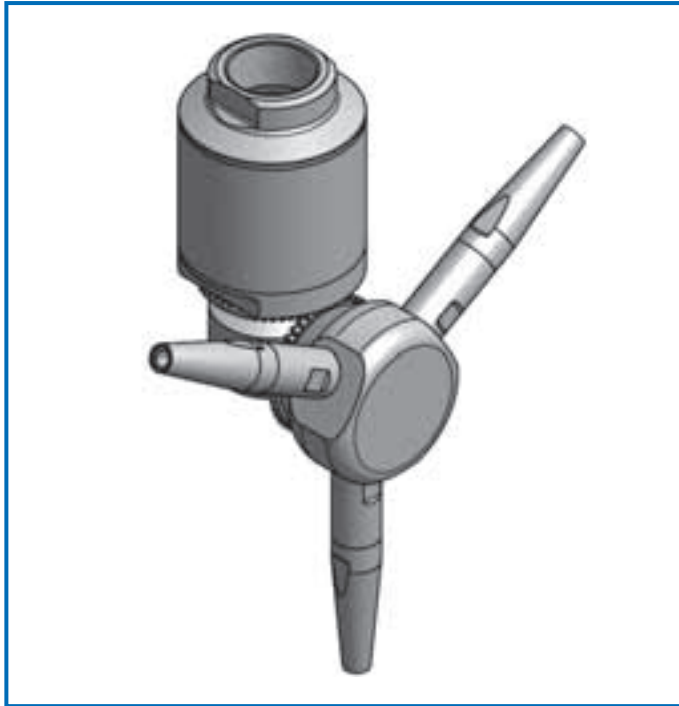
SW = wrench key width

Consumption



Medium-driven jet cleaner TANKO® JM500

Price/EUR	Item no.	Description	Connection
on request	668 56 03NG Z0S0 20	TANKO® JM-500-G22 with 2x2 nozzles Ø 6,5mm 3,5-13 bar slide bearing	1 1/2" BSP (female thread)
on request	668 56 03NG Z0U0 20	TANKO® JM-500-G22 with 2x2 nozzles Ø 8,0mm 3,5-13 bar slide bearing	1 1/2" BSP (female thread)
on request	668 56 03NG Z0V0 20	TANKO® JM-500-G22 with 2x2 nozzles Ø 9,5mm 3,5-13 bar slide bearing	1 1/2" BSP (female thread)
on request	668 56 04NG Z0S0 20	TANKO® JM-500-G22 with 2x2 nozzles Ø 6,5mm 3,5-13 bar slide bearing	1 1/2" NPT (female thread)
on request	668 56 04NG Z0U0 20	TANKO® JM-500-G22 with 2x2 nozzles Ø 8,0mm 3,5-13 bar slide bearing	1 1/2" NPT (female thread)
on request	668 56 04NG Z0V0 20	TANKO® JM-500-G22 with 2x2 nozzles Ø 9,5mm 3,5-13 bar slide bearing	1 1/2" NPT (female thread)
Spare parts set			
on request	668 56 00NG V000 00	Ware parts set	
on request	664 MW J532 0000	Assembly- disassembly -tools for rotor	
on request	664 MW J540 0000	Special wrench for gear installation	
on request	664 BA J500 00DT	Operating manual german	
on request	664 BA J500 00EN	Operating manual english	
Spare parts set for Jumbo 6-500			
on request	67J6-500SPK	Ware parts set J6-500	
on request	67J6-500BDSPK	Ware parts set J6-500BD ball driven version	
on request	67J6-500HTSPK	Ware parts set J6-500HT high temperature version	
on request	67J6-TMN1010	Special wrench for gear installation for Jumbo J6-500	



The TANKO® JM800 is applied in tanks, where range and cleansing agent quantities are significant parameters. The most cost-efficient concept allows an economical cleaning in many areas of tank cleaning. The slow rotation of the jet nozzle system provides high ranges. Various jet nozzles enable an adjustment of the cleansing agent quantities.

Material

1.4404 (316L), 1.4571 (Ti) -
3.1 Certificate on request, PTFE
and PEEK + PTFE (FDA-conform)

Connection

1 1/2" BSP- or NPT-thread

Operating pressure (bar)

5 - 13

Max. working temperature (°C)

121

Weight (kg)

7,2

Volume flow rate [m³/h]

14,3 - 27,6

Volume flow rate [l/min]

238 - 460

Number of revolutions (RPM)

5 - 20

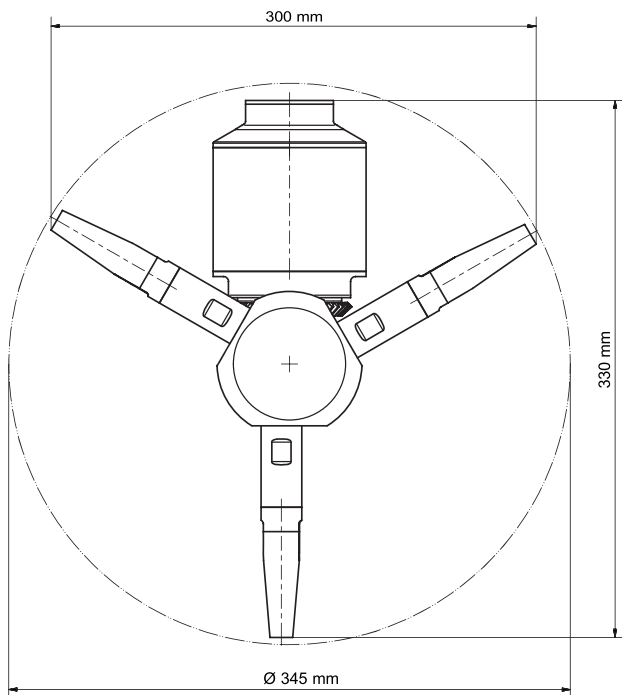
**Recommended max. diameter
for cleaning**

typical 10 - 14 m; max. 16 m

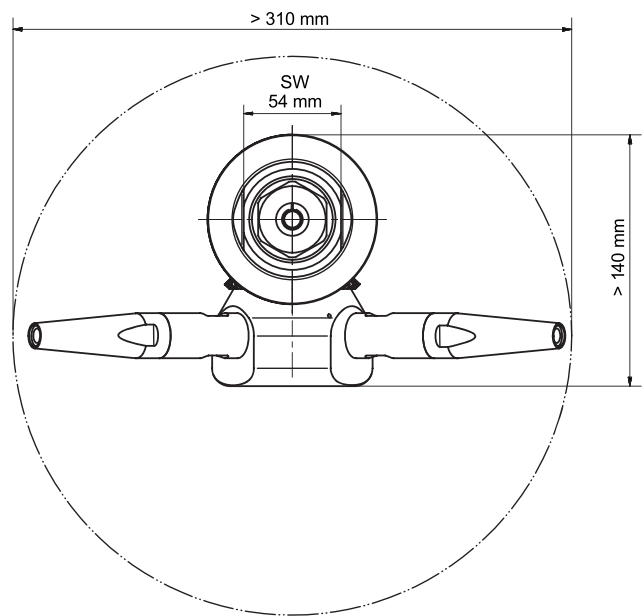
Installation position

vertical

TANKO® JM800 dimensions

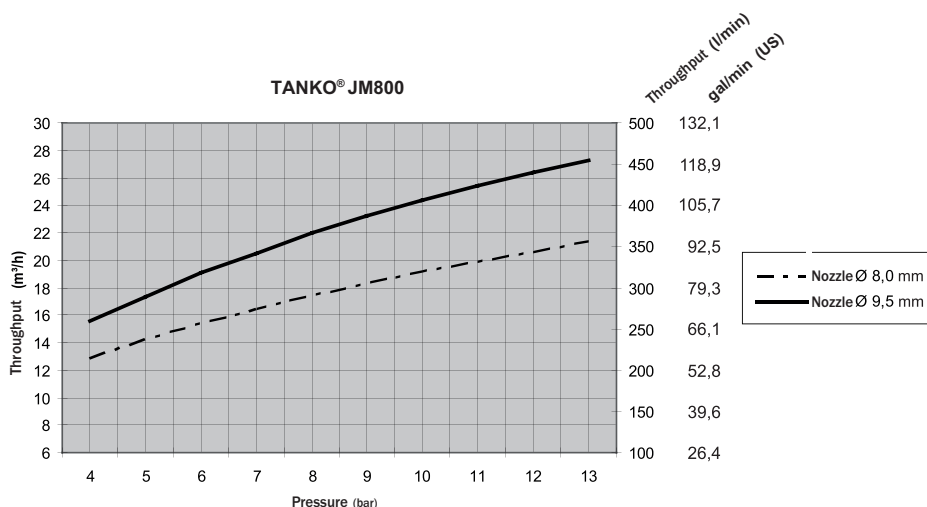


TANKO® JM800 min. installation dimensions



SW = wrench key width

Consumption



Medium-driven jet cleaner TANKO® JM800

Price/EUR	Item no.	Description	Connection
on request	668 83 03NG Z0U0 20	TANKO® JM800-G13 with 1x3 nozzles Ø 8,0mm 5-13 bar slide bearing	1 1/2" BSP (female thread)
on request	668 83 03NG Z0V0 20	TANKO® JM800-G13 with 1x3 nozzles Ø 9,5mm 5-13 bar slide bearing	1 1/2" BSP (female thread)
on request	668 83 04NG Z0U0 20	TANKO® JM800-G13 with 1x3 nozzles Ø 8,0mm 5-13 bar slide bearing	1 1/2" NPT (female thread)
on request	668 83 04NG Z0V0 20	TANKO® JM800-G13 with 1x3 nozzles Ø 9,5mm 5-13 bar slide bearing	1 1/2" NPT (female thread)
Spare parts set			
on request	668 83 00NG V000 00	Ware parts set	
on request	664 MW J832 0000	Assembly- disassembly -tools for rotor	
on request	664 MW J840 0000	Special wrench for gear installation	
on request	664 BA J800 00DT	Operating manual german	
on request	664 BA J800 00EN	Operating manual english	
Spare parts set for TANKMAN			
on request	6780-120	Ware parts set TANKMAN	
on request	67J6-TMN1010	Special wrench for gear installation for TANKMAN	

Tank Cleaning Trolley JM-C1

Example for Assembly JM-C1 + TANKO® JM500



similar image

Applicable for:

- TANKO® JM100
- TANKO® JM500
- TANKO® JM800
- TANKO® RB64
- TANKO® S50

Material

1.4404 (316L)

Connection supply

DN 50

Threaded connection acc. to
DIN 11851

Connection Jet Cleaner

1 1/2" BSP

Reducing flange

1.4436

Locking pin

1.4430

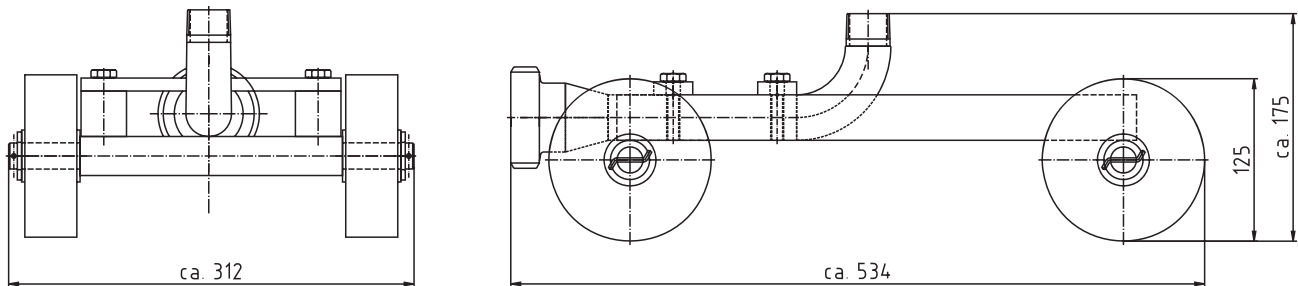
Wheels

PP, FDA-conform

Surface

Metal-brighth or hand-polished

Dimensions JM-C1



Tank Cleaning Trolley JM-C1

Price/EUR	Item no.	Description	Weight (kg)
on request	666 10 1570 0120	Tank Cleaning Trolley JM-C1 Surface: Metal-bright	12,5
on request	666 10 1570 1120	Tank Cleaning Trolley JM-C1 light weight Surface: Metal-bright	5,3
on request	666 10 1570 0121	Tank Cleaning Trolley JM-C1 Surface: Hand-polished	12,5

CIP - Control

CIP - Validation

CIP - Documentation

CIPMon SC II



-> Applied in the

- food industry
- pharmaceutical industry
- chemical industry

-> For cleaning, e.g.

- storage tanks (jet cleaners)
- Reactors
- Fermenters

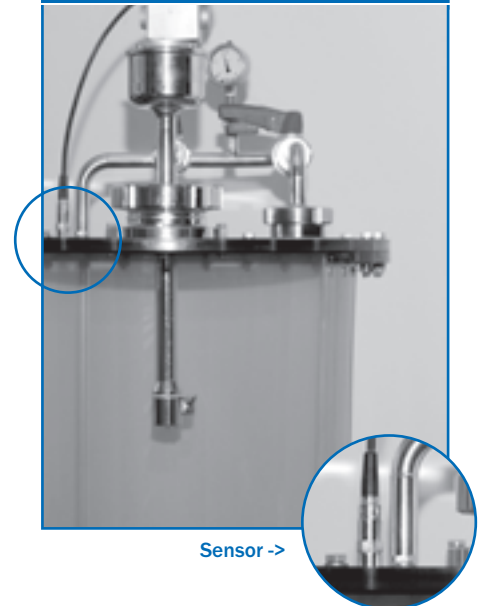
-> Monitors

- the rotation of the cleaning devices
- the impact of the cleansing agent onto the vessel's wall

**Raises an alarm
immediately in the event
of malfunctions during
the cleaning process**

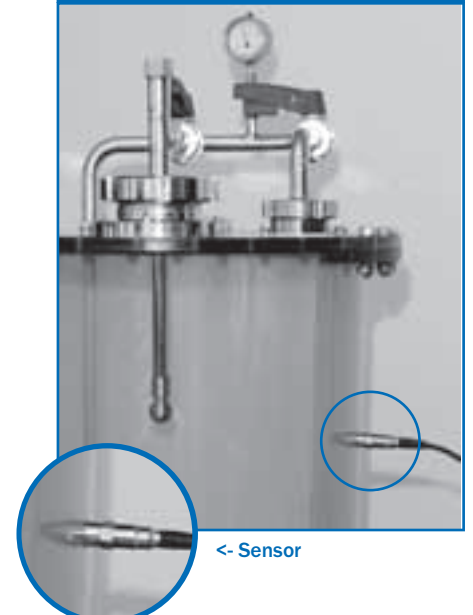
Please contact us for further information.

Monitoring of a TANKO[®] JX
(Sensor placed above)



Sensor ->

Monitoring of a TANKO[®] S
(Sensor placed on the side)



<- Sensor



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