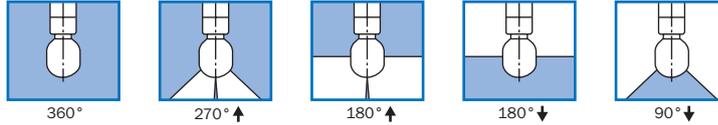


TANKO® S



The TANKO® S is a rotating spray head with slotted spray openings.

Strong impact, high cleaning force at low volumetric flows and low pressures make it easier to optimize the cleaning process and provide a more efficient alternative to static spray balls. The spate cleaners are available in 5 different sizes, with different materials and connections, and also with ATEX certification if required.

All consumption specifications are for orientation only.
The dimensions listed are in mm and are nominal dimensions.

Technical Parameters

Spray angle:	360°, 270° upwards, 180° upwards, 180° downwards, 90° downwards
Materials:	<p>TANKO® S10: Basic body 1.4435 (316L); bearing balls 1.4401 (316), optional 2.4610 (HC4)</p> <p>TANKO® S20 / TANKO® S30: Basic body 1.4435 (316L), 2.4602 (HC22), 2.4610 (HC4); Bearing balls 1.4401 (316), optional 2.4610 (HC4)</p> <p>TANKO® S40 / TANKO® S50: Basic body 1.4435 (316L), 1.4404 (316L), 2.4602 (HC22), 2.4610 (HC4); bearing balls 1.4401 (316), optional 2.4610 (HC4)</p>
Connections:	Clipon, thread, orbital weldon connection acc. DIN 11866
Operating pressure:	Cleaning medium: 1.5 - 3 bar / 22 - 43.5 psi *
Working temperature:	Cleaning medium: max. 230 °C / 446 °F (Does not apply to ATEX versions!)
Ambient temperature:	Inside the vessel: max. 250 °C / 482 °F (Does not apply to ATEX versions!)
Volume flow rate:	0.25 - 18 m³/h / 4.2 - 300 l/min / 1 - 79 gpm (US) *
Range:	Cleaning radius: 0.1 - 3.2 m / 0.3 - 10.5 ft; wetting radius: 0.1 - 4.2 m / 0.3 - 13.8 ft *
Bearings:	double ball bearings

*Depending on model and cleaning medium

Information as per ATEX (excerpt)

The cleaning devices satisfy the explosion protection requirements of the directive 2014/34/EU.

Current information on the type approval of the cleaning devices: TANKO® EX S20, TANKO® EX S30, TANKO® EX S40, TANKO® EX S50
(G = Gas, D = Dust, c = Design safety, TX = See operating instructions)

II 1 GD c TX

An ATEX operating manual is provided with every ATEX shipment.

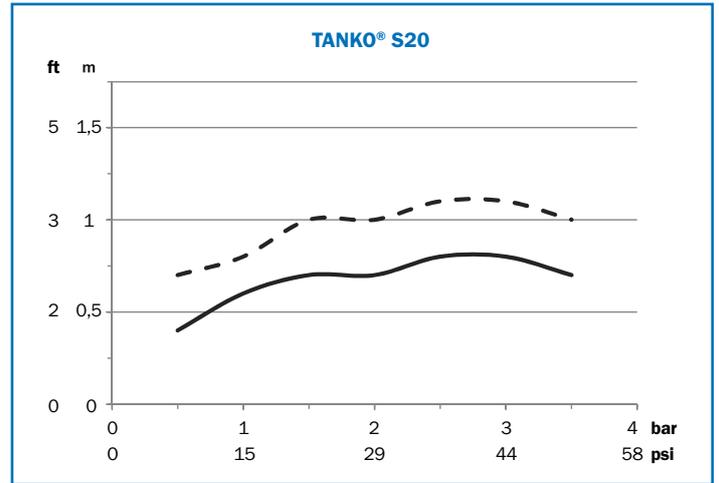
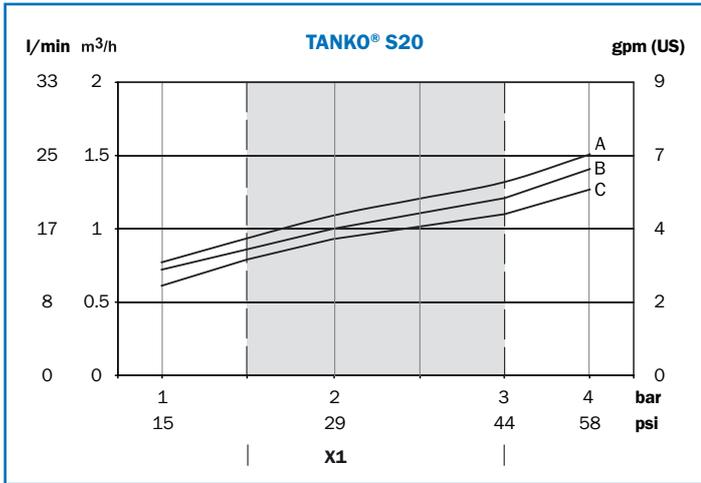
The technical data of the ATEX units can differ from the standard units and this data is provided in the respective operating and installation instructions.

Surcharge on standard products from the TANKO® S series: 75,00 EUR ¹⁾

Article no.: please take the respective article number and substitute the value "X" accordingly. E.g.: 665_____X

¹⁾ Price applies to German or English user languages, other user languages available on request.

Consumption and Throw Length Data



A - 360° / 270° upwards **B** - 180° downwards **C** - 90° downwards

--- Wetting radius — Cleaning radius

X1 - recommended operating pressure

TANKO® S20

TANKO® S20, 360°

Connection	DIN 11866 DIN EN 10357	DN	RD	s	KD	H	h1	h2	d	Weight [kg]
Clipon	Series A (DIN)	8	10.2		17	43	7	3	2.2	0.026
Clipon	Series B (ISO)	6	10.4		17	43	7	3	2.2	0.026
Clipon	Series C (ASME)	8	12.9		17	45	7	3	2.2	0.026
Clipon	Series 1 (DIN 11850) and old series	10	12.2		17	45	7	3	2.2	0.026
Weldon	Series A (DIN)	8	10	1	17	68	27			0.036
Weldon	Series A (DIN)	10	13	1.5	17	68	27			0.047
Weldon	Series B (ISO)	8	13.5	1.6	17	68	27			0.047
Weldon	Series C (ASME)	8	1/2" (12.7)	1.65	17	68	27			0.047
Thread	BSP	6	G 1/8"		17	43	7			0.027
Thread	NPT	6	1/8"		17	43	7			0.027
Thread	NPSM	6	1/8"		17	43	7			0.027

TANKO® S20, 270° upwards

Connection	DIN 11866	DN	RD	s	KD	H	h1	h2	d	Weight [kg]
Clipon	Series A (DIN)	8	10.2		17	43	7	3	2.2	0.026
Clipon	Series B (ISO)	6	10.4		17	43	7	3	2.2	0.026
Clipon	Series C (ASME)	8	12.9		17	45	7	3	2.2	0.026
Weldon	Series A (DIN)	8	10	1	17	68	27			0.036
Weldon	Series A (DIN)	10	13	1.5	17	68	27			0.047
Weldon	Series B (ISO)	8	13.5	1.6	17	68	27			0.047
Weldon	Series C (ASME)	8	1/2" (12.7)	1.65	17	68	27			0.047
Thread	BSP	6	G 1/8"		17	43	7			0.027
Thread	NPT	6	1/8"		17	43	7			0.027
Thread	NPSM	6	1/8"		17	43	7			0.027

TANKO® S20, 180° downwards

Connection	DIN 11866	DN	RD	s	KD	H	h1	h2	d	Weight [kg]
Clipon	Series A (DIN)	8	10.2		17	43	7	3	2.2	0.026
Clipon	Series B (ISO)	6	10.4		17	43	7	3	2.2	0.026
Clipon	Series C (ASME)	8	12.9		17	45	7	3	2.2	0.026
Weldon	Series A (DIN)	8	10	1	17	68	27			0.036
Weldon	Series A (DIN)	10	13	1.5	17	68	27			0.047
Weldon	Series B (ISO)	8	13.5	1.6	17	68	27			0.047
Weldon	Series C (ASME)	8	1/2" (12.7)	1.65	17	68	27			0.047
Thread	BSP	6	G 1/8"		17	43	7			0.027
Thread	NPT	6	1/8"		17	43	7			0.027
Thread	NPSM	6	1/8"		17	43	7			0.027

TANKO® S20, 90° downwards

Connection	DIN 11866	DN	RD	s	KD	H	h1	h2	d	Weight [kg]
Clipon	Series A (DIN)	8	10.2		17	43	7	3	2.2	0.026
Clipon	Series B (ISO)	6	10.4		17	43	7	3	2.2	0.026
Clipon	Series C (ASME)	8	12.9		17	45	7	3	2.2	0.026
Weldon	Series A (DIN)	8	10	1	17	68	27			0.036
Weldon	Series A (DIN)	10	13	1.5	17	68	27			0.047
Weldon	Series B (ISO)	8	13.5	1.6	17	68	27			0.047
Weldon	Series C (ASME)	8	1/2" (12.7)	1.65	17	68	27			0.047
Thread	BSP	6	G 1/8"		17	43	7			0.027
Thread	NPT	6	1/8"		17	43	7			0.027
Thread	NPSM	6	1/8"		17	43	7			0.027



Orbital welds are surely the best solution from a hygiene perspective. Attention must be paid to problems in cleaning the downpipe and especially longer downpipes require special solutions. The thread connection allows flexible connection of the cleaning device but especially the thread carries cleanliness risks. A pipe with a male thread always results in “drip formation” at the transition between the thread and the cleaning device.

The weldon adapter shown in the illustration, in conjunction with a neat weld seam, is a good solution to this problem. The gap between the thread and the cleaning device is arranged horizontally. Outflowing cleaning medium cannot accumulate as droplets at this position but rather flow cleanly away over this edge. Various different versions for the combinations of pipe diameter and cleaning device are available. A selection can be made between the materials 1.4404 (316L), 1.4571 (316Ti), 1.4435 (316) and various Hastelloy variants if necessary.

In conjunction with the listed vessel connection variants, this results in a neat solution for a wide range of cleaning devices. This makes it easy to reduce contamination at the connection points of the cleaning device. The cleaning process can also be easily optimized when changing the downpipe geometries (installation dimensions).

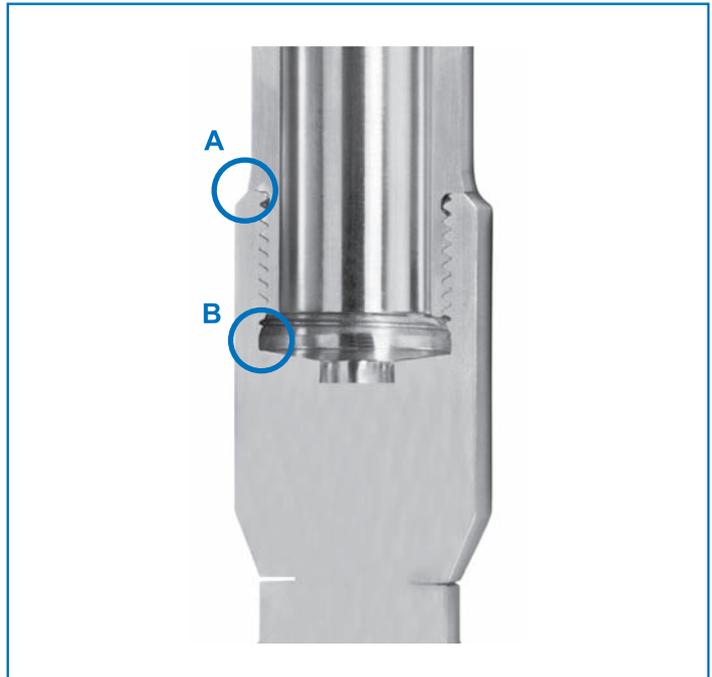
If you have any questions we are happy to help you.
The dimensions listed are in mm and are nominal dimensions.

Hygienic Installation of Cleaning Devices



Standard - male thread installation

A, B – Problem zones for self-cleaning



AWH - hygienic solution

A – Droplet lip B - Turbulence zone for self-cleaning

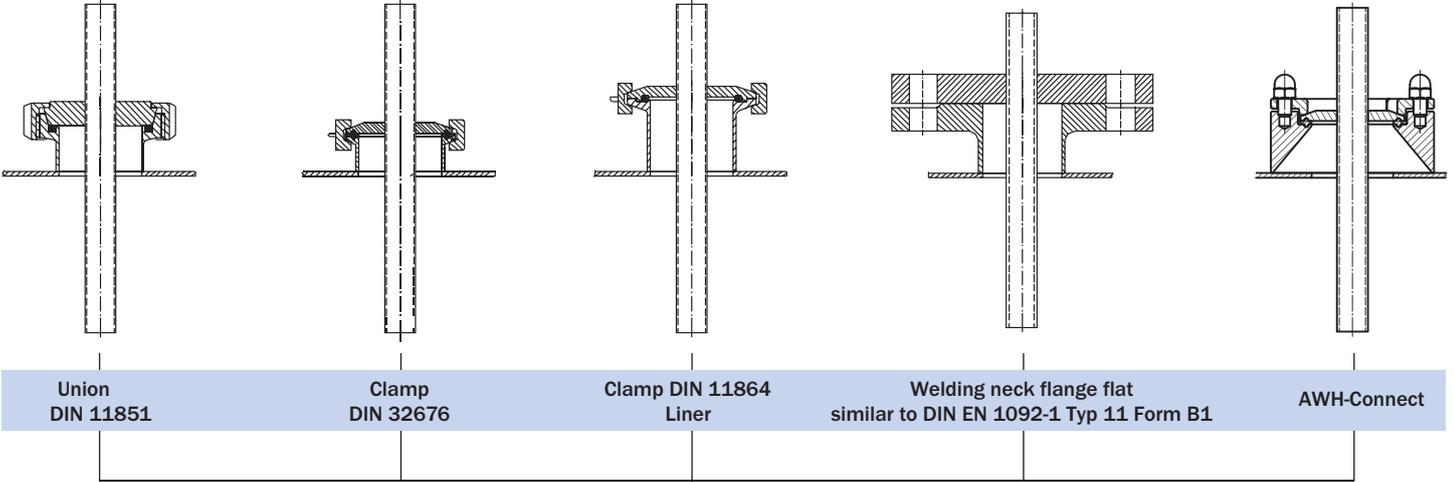
Services

Material Certificates

Article No.	Description	Net price/EUR
6600AZ31	WAZ 3.1 - EN10204 - TANKO® AN	

Installation Options

Available in various designs with short lead times



Weldon nipple



TANKO® MX125

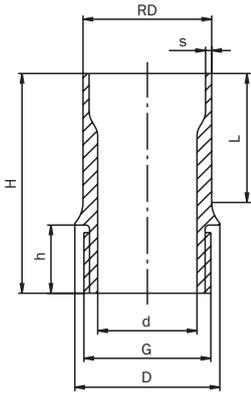
TANKO® CP

TANKO® JM100/-JM500/-JM800

TANKO® S

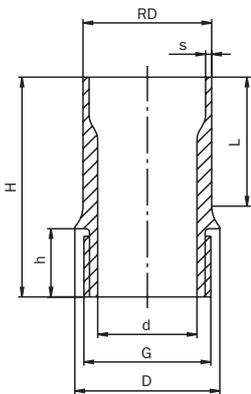
TANKO® CR40

TANKO® RB



TANKO® AN Weldon Nipple (orbital) with BSP Thread

DN	DIN 11866	RD	s	G	D	d	H	h	L	Weight [kg]
6	Series A (DIN)	8	1	M5	8	3	33.5	3.8	27	0.009
10	Series A (DIN)	13	1.5	G 1/8"	14	6	36	6	27	0.022
8	Series B (ISO)	13.5	1.6	G 1/8"	14	6	36	6	27	0.024
8	Series C (ASME)	1/2" - 12.7	1.65	G 1/8"	14	6	36	6	27	0.022
10	similar to DIN 11850 (old series)	12	1.5	G 1/8"	14	6	36	6	27	0.022
10	Series A (DIN)	13	1.5	G 1/4"	15	9	39	9	27	0.019
8	Series B (ISO)	13.5	1.6	G 1/4"	15	9	39	9	27	0.021
8	Series C (ASME)	1/2" - 12.7	1.65	G 1/4"	15	9	39	9	27	0.018
15	Series A (DIN)	19	1.5	G 3/8"	19	12.5	39	9	27	0.037
10	Series B (ISO)	17.2	1.6	G 3/8"	19	12.5	39	9	27	0.030
15	Series B (ISO)	21.3	1.6	G 3/8"	19	12.5	39	9	27	0.047
15	Series C (ASME)	3/4" - 19.05	1.65	G 3/8"	19	12.5	39	9	27	0.038
15	similar to DIN 11850 (old series)	18	1.5	G 3/8"	19	12.5	39	9	27	0.033
15	Series A (DIN)	19	1.5	G 1/2"	23	15	44	12	27	0.041
15	Series B (ISO)	21.3	1.6	G 1/2"	23	15	44	12	27	0.053
15	Series C (ASME)	3/4" - 19.05	1.65	G 1/2"	23	15	44	12	27	0.042
25	Series A (DIN)	29	1.5	G 3/4"	30	21	55	15	35	0.103
20	Series B (ISO)	26.9	1.6	G 3/4"	30	21	55	15	35	0.085
25	Series B (ISO)	33.7	2	G 3/4"	30	21	55	15	34	0.152
20	Series C (ASME)	1" - 25.4	1.65	G 3/4"	30	21	55	15	35	0.073
25	similar to DIN 11850 (old series)	28	1.5	G 3/4"	30	21	55	15	35	0.103
32	Series A (DIN)	35	1.5	G 1"	38	26	58	18	34	0.155
25	Series B (ISO)	33.7	2	G 1"	38	26	58	18	34	0.148
32	Series C (ASME)	1 1/2" - 38.1	1.65	G 1"	38	26	58	18	34	0.189
40	Series A (DIN)	41	1.5	G 1 1/2"	52	38	60	20	28	0.183
50	Series A (DIN)	53	1.5	G 1 1/2"	52	41	60	20	35	0.277
40	Series B (ISO)	48.3	2	G 1 1/2"	52	41	60	20	35	0.215
40	Series C (ASME)	2" - 50.8	1.65	G 1 1/2"	52	41	60	20	35	0.250
50	similar to DIN 11850 (old series)	52	1.5	G 1 1/2"	52	41	60	20	35	0.250



TANKO® AN Weldon Nipple (orbital) with NPSM Thread

DN	DIN 11866	RD	s	G	D	d	H	h	L	Weight [kg]
8	Series B (ISO)	13.5	1.6	1/8"	14	6	36	6	27	0.024
8	Series C (ASME)	1/2" - 12.7	1.65	1/8"	14	6	36	6	27	0.022
8	Series B (ISO)	13.5	1.6	1/4"	15	9	36	6	27	0.021
8	Series C (ASME)	1/2" - 12.7	1.65	1/4"	15	9	36	6	27	0.018
10	Series B (ISO)	17.2	1.6	3/8"	19	12.5	39	9	27	0.030
15	Series C (ASME)	3/4" - 19.05	1.65	3/8"	19	12.5	39	9	27	0.038
15	Series B (ISO)	21.3	1.6	1/2"	23	15	44	12	27	0.053
15	Series C (ASME)	3/4" - 19.05	1.65	1/2"	23	15	44	12	27	0.042
20	Series B (ISO)	26.9	1.6	3/4"	30	21	55	15	35	0.085
20	Series C (ASME)	1" - 25.4	1.65	3/4"	30	21	55	15	35	0.073
25	Series B (ISO)	33.7	2	1"	38	26	58	18	34	0.148
32	Series C (ASME)	1 1/2" - 38.1	1.65	1"	38	26	58	18	34	0.189
40	Series B (ISO)	48.3	2	1 1/2"	52	41	60	20	35	0.215
40	Series C (ASME)	2" - 50.8	1.65	1 1/2"	52	41	60	20	35	0.249