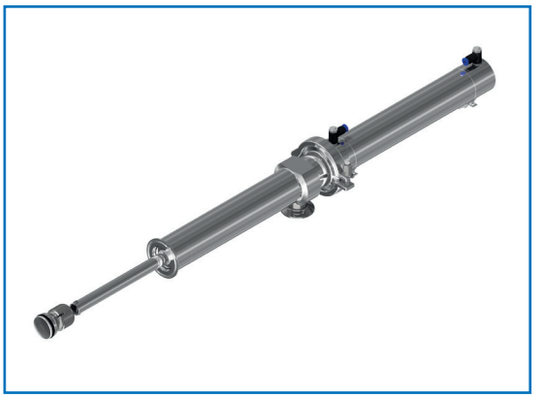
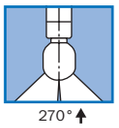
TANKO® RT and TANKO® RTS





The main potential applications of retractors are particularly where little space is available for a cleaning device due to projecting agitators or other internal fittings, or where critical products prevent permanent installation of a cleaning device. The TANKO® RT and TANKO® RTS have been conceived for use in highly sterile processes. The basic principle of the retractor is the distinction between the rest position (closed construction, the spray head is located in the housing and therefore outside the vessel) and cleaning mode (the spray head is extended into the vessel for cleaning).

Extension into the cleaning position and retraction of the cleaning head into the retractor housing are both performed pneumatically and are thus fully controllable. The end positions of the extension and retraction movements can be queried via sensors. The retractor is available in stroke lengths of 100, 150, 250 and 500. The rotating spray head of the TANKO® RT runs on ball bearings lubricated by the cleaning medium. The rotating spray head of the retractor with differentiated slots and variable flow rates resulting from this can be used for different cleaning performance requirements. The TANKO® RTS is a retractor equipped with a static spray head. A special ATEX version of the retractor is available for ATEX applications.

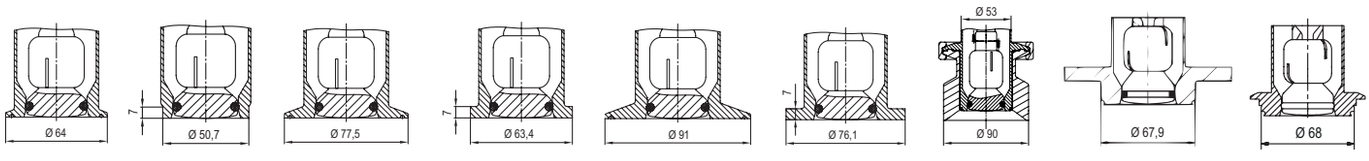
All consumption specifications are for orientation only.
The dimensions listed are in mm and are nominal dimensions.

Technical Parameters

Spray angle:	270° upwards
Materials:	1.4435 (316L), 1.4401 (316), 1.4430, PTFE modified, EPDM, optional: FKM and FFKM Other: 1.4301 (304), PU, AL
Connections:	Medium connection: Clamp acc. DIN 32676 (Series A) DN25, optional: MA-adapter DN25 / 1" + seal + clamp DIN 32676 for DN25 Process connection: suitable for clamps as per DIN 32676 series A, B and C; welded connection; combination adapter C3, BioControl® and Varivent
Operating pressure:	Cleaning medium: 1 - 8 bar / 14.5 - 116 psi (does not apply to ATEX versions!) * Pneumatic system: mind. 5 bar / 72.5 psi , max. 8 bar / 116 psi
Working temperature:	Cleaningmedium: max. +95 °C (+203 °F) (does not apply to ATEX)
Ambient temperature:	inside the vessel: during cleaning up to max. 95 °C (+203 °F) in standby mode: O-ring EPDM -20 °C (-4 °F) to +130 °C (+266 °F) O-ring FKM and FFKM -15 °C (+5 °F) to +140 °C (+284 °F) outside the vessel: max. 60 °C / 140 °F (does not apply to ATEX versions!)
Pressure in the tank:	During cleaning: 0 to max. 0,5 bar During process, no cleaning an und retractor closed: 0 to max. 3 bar
Sterilization temperature:	Not suitable for steam sterilization inside!
Volume flow rate:	2 - 6.5 m³/h / 33.3 - 108.3 l/min / 8.8 - 28.6 gmp US) *
Range:	Cleaning radius: max. 1.6 m / 5.3 ft; Wetting radius: max. 2.5 m / 8.2 ft
Installation position:	vertically suspended, other positions on request

*Depending on model and cleaning medium

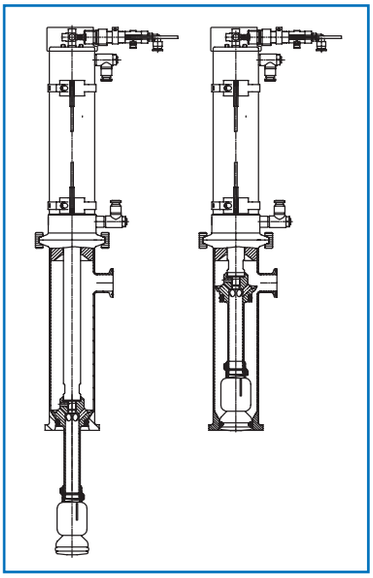
Process Connections



2" Clamp | 2" Weldon | 2 1/2" Clamp | 2 1/2" Weldon | 3" Clamp | 3" Weldon | Combi adapter C3 | for BioControl® | for Varivent®

TANKO® RT and TANKO® RTS

Information as per ATEX (excerpt)



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

Current information on the type approval of the cleaning devices:
TANKO® RT65 ATEX, RT100 ATEX, RT150 ATEX, RT250 ATEX, RT500 ATEX,
TANKO® RTS65 ATEX, RTS100 ATEX, RTS150 ATEX, RTS250 ATEX, RTS500 ATEX

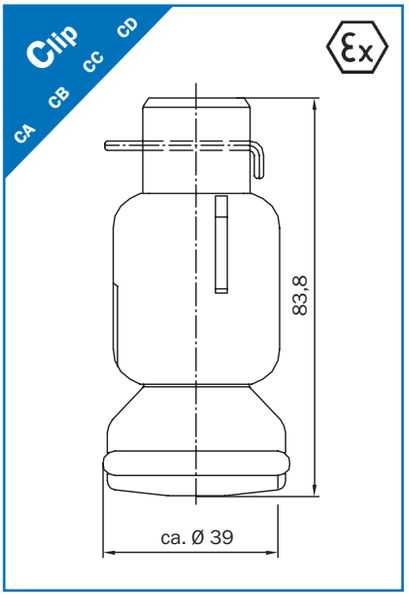
(G = Gas, D = Dust, X at the end of the identification number = Special conditions, see operating instructions)

II 1/2G Ex IIB/IIC T6/T6... T3 Ga/Gb
II 1G/2D Ex IIB/IIIC T6/T95°C... T140°C Ga/Db
II 1/2D Ex IIIC/IIIC T60°C... T70°C/T95°C... T140°C Da/Db
II 1D/2G Ex IIIC/IIC T60°C... T70°C/T6... T3 Da/Gb
BVS 10 ATEX H 006 X

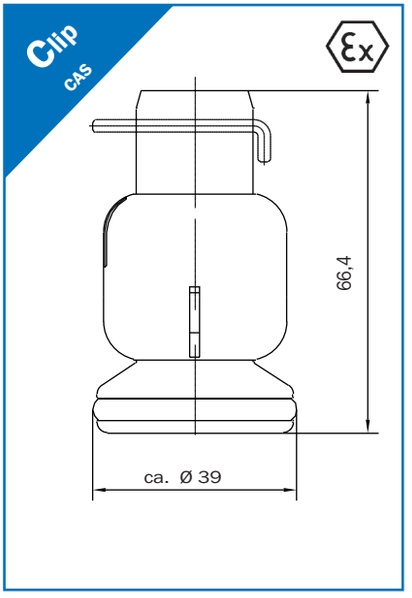
The technical data of the ATEX units can differ from the standard units and this data is provided in the respective operating and installation instructions.

Ordering note:
1. Surcharge on Standard Products from the TANKO® RT Series 1,320.00 EUR
2. When placing your order, please locate the corresponding standard article number in the order tables and replace the last (0) with an X. E.g.: 66R3 110 2925 311X
3. For the RTS anti-rotation version, please replace the nine (9) at the 9th position of the article number with an eight (8).

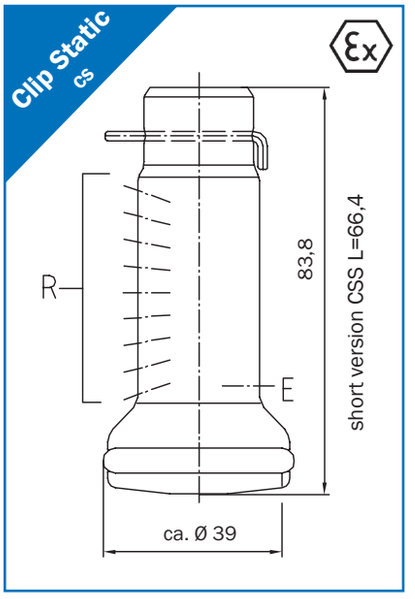
Spray Head Variants



Spray head for TANKO® RT and TANKO® RT ATEX



Spray head for TANKO® RT and TANKO® RT ATEX short



Spray head for TANKO® RTS and TANKO® RTS ATEX

R = Cleaning holes as per customer specifications
E = Drain perforation

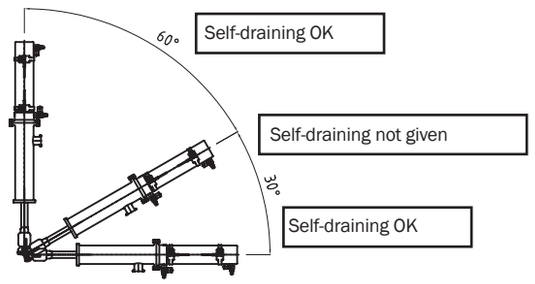
Note: TANKO® RTS locked against Rotation with a Static Spray Head CS

At an additional cost of EUR 825.00, the TANKO-RT can be supplied in a non-rotating version, the TANKO® RTS with a static spray head (CS). The static spray head comes as standard with the drain hole only and can be custom-drilled by the customer to create a customized, targeted spray pattern for the specific application. For an additional fee, AWH also offers this service, with the spray pattern and flow rates being coordinated with the customer.

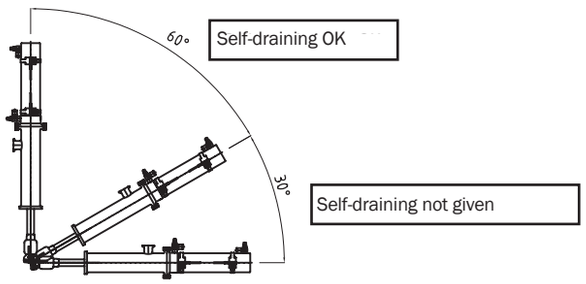
Ordering note:
For the RTS anti-rotation version, please replace the 4th digit of the article number with an S and the nine (9) at the 9th position of the article number with an eight (8). Surcharge on products from the TANKO® RT series: 825.00 EUR.

TANKO® RT and TANKO® RTS

Installation Advice regarding Self-draining

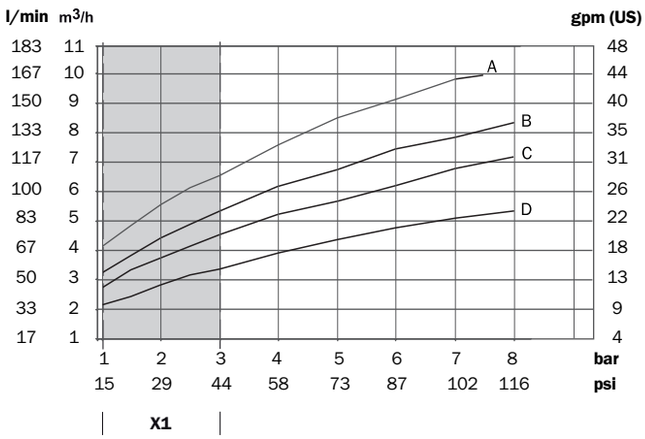


Medium connection at the bottom



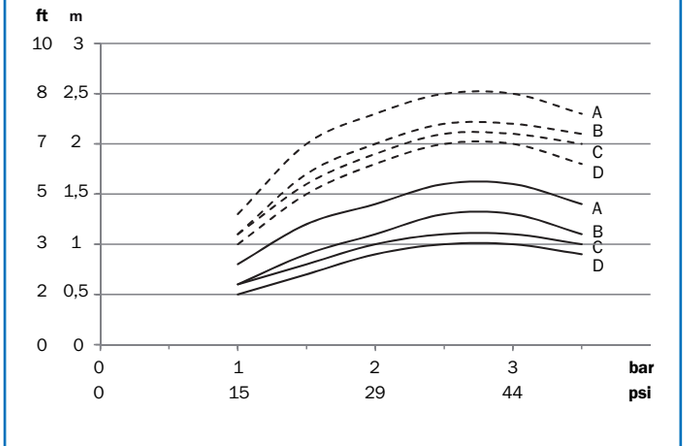
Medium connection on top

Consumption Data and Throw Length Data TANKO® RT and TANKO® RT ATEX



A – Head type "CD" 270°
B – Head type "CC" 270°
C – Head type "CB" 270°
D – Head type "CA" 270°

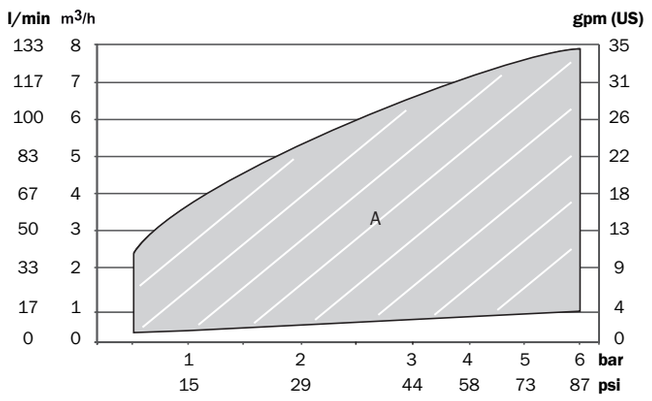
X1 – recommended operating pressure
optional: TANKO® S30 or TANKO® RB30



A – Head type "CD" 270°
B – Head type "CC" 270°
C – Head type "CB" 270°
D – Head type "CA" 270°

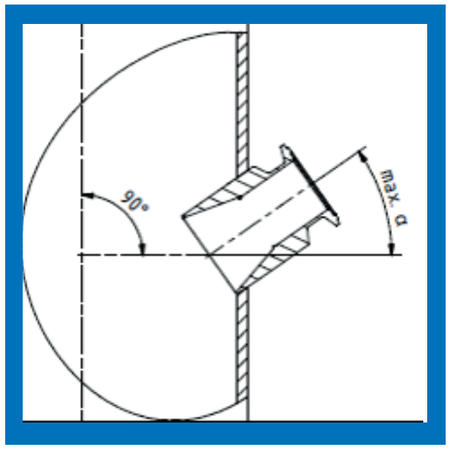
--- Wetting radius
– Cleaning radius

Consumption Data TANKO® RTS and TANKO® RTS ATEX



A – Usable flow rate

Accessories & Services



Combination Vessel Connector (CVC)

Article no.	Material	Description	Angle α	Price/EUR
66R 000 000 4M30	1.4435	CVC C3 long	≤ 30°	152.00
66R 000 000 4M80	2.4602	CVC C3 long	≤ 30°	705.00
66R 000 000 4N30	1.4435	CVC C3 short	0°. 90°	118.00
66R 000 000 4N80	2.4602	CVC C3 short	0°. 90°	665.00
66R 000 000 4P30	1.4435	CVC C3XL. extra long	≤ 35°	152.00
66R 000 000 4P80	2.4602	CVC C3XL. extra long	≤ 35°	745.00
66R 000 000 4K30	1.4435	CVC C3. extra short	0°. 90°	118.00
66R 000 000 4K80	2.4602	CVC C3. extra short	0°. 90°	665.00
66R 000 600 4N30	1.4435	CVC C3EK short	0°. 90°	118.00
66R 000 600 4N80	2.4602	CVC C3EK short	0°. 90°	665.00
66R 000 600 4M30	1.4435	CVC C3EK long	≤ 30°	118.00
66R 000 600 4M80	2.4602	CVC C3EK long	≤ 30°	665.00

Blind plugs and associated O-rings for Combination Vessel Connectors

Article no.	Material	Description	Price/EUR
66R 000 000 4Z30	1.4435	Blind plug	*
66R 000 000 4Z80	2.4602	Blind plug	*
106 050 000 4501	EPDM	O-ring 45 x 3	*
106 050 000 4503	FKM	O-ring 45 x 3	*
106 050 000 4506	FFKM	O-ring 45 x 3	*

Adapter for Media Connection / Clamp Connection acc. DIN 32676

Article no.	Material	Description	DN	Price/EUR
66R 000 000 0D30	1.4435	Media Connection Adapter	Series A 25 / Series C 1"	*
111 100 072	1.4301 (304)	Heavy duty clamp	25 - 40 / 1" - 1.5"	*
105 140 000 2555	EPDM	Clamp seal	25	*
105 160 000 2555	FKM	Clamp seal	25	*
105 160 000 2554	PTFE	Clamp seal	25	*
105 170 031 0001	EPDM	Clamp seal	1"	*
105 170 031 0002	FKM	Clamp seal	1"	*
105 170 031 0004	PTFE	Clamp seal	1"	*

Measuring Report

Number of measuring points	Description	Price/EUR
6	Roughness: Basic body	65.00
4	Roughness: Spray head TANKO® RPB-E	45.00
5	Δ-ferrite content TANKO® RT hydro pipe	75.00
2	Δ-ferrite content TANKO® RT Spray head	30.00