



RTAA T50

- High-performance rotary nozzle
- Optimized hygienic design
- Open/closed position feedback
- Customizable configuration



- FDA/ATEX documentation available
- Pneumatic opening and closing (air/gas operated)
- Robust and versatile T50 rotary nozzle
- Suitable for insulated vessels and piping
- Suitable for vacuum and pressure vessels
- Various stroke lengths available
- Various spray patterns/flow rates available

The RTAA retractor is a high-quality, pneumatically actuated retractable rotary spray nozzle cleaning system designed for the hygienic cleaning of pipes, channels and vessels. It operates in AIR/AIR mode (pneumatic extension and retraction) and is designed for low-pressure liquid distribution as well as cleaning applications within a range of 0.5–5 bar (recommended 2–4 bar). RTAA device variants are available with or without a nozzle shut-off and with different nozzle types.

The RTAA retractor with T50 rotary nozzle is equipped with a shut-off cap, so the nozzle system is hygienically retracted and closed in the park position. During operation, the T50 rotary nozzle provides a backward spray distribution of up to 325° with an optimized droplet pattern and an effective cleaning performance of up to Ø 2.5 m with a spray circle of up to 4.0 m.

Thanks to variable mounting options, the RTAA series retractor is also well suited for insulated equipment sections or channels. The pneumatic control offers flexible application options, enabling future-proof solutions, maximum process optimization and potential cost savings. RTAA retractors are configured to customer specifications; selectable options include stroke length, process connections, flow rate, sensors and materials. For use in sensitive areas, RTAA systems can be supplied with position feedback (open/closed).

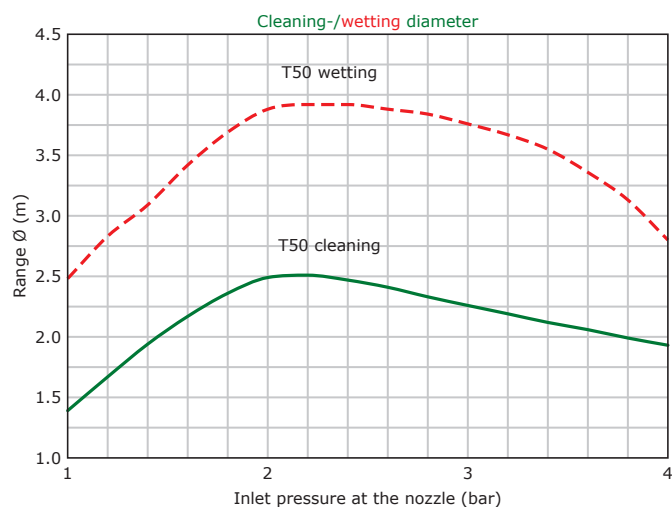
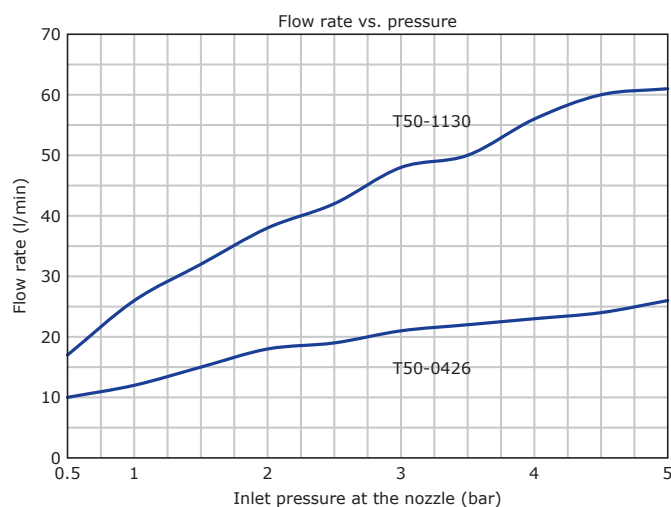
Optional weld-in flanges can be provided, adapted to the applicable standard and the existing pipe radius, to achieve a flush and hygienic installation. Please contact us directly to learn more about RTAA nozzle systems.

Technical data:

Operating principle:	AIR/AIR (compressed air / inert gas)
Function:	Extension and retraction by compressed air / inert gas (AIR/AIR)
Application:	Pipe and vessel cleaning, fire extinguishing
Spray distribution:	Backward-directed spray pattern up to 325°, blind area approx. 35°
Stroke length options:	100 mm, 150 mm, 200 mm, up to 750 mm (other stroke lengths on request)
Operating pressure range:	0.5 – 5 bar
Recommended liquid pressure:	2 – 4 bar (max. 5 bar)
Spray circle (wetting):	Ø 3.95 m at 2 bar (T50-1130, water 20 °C)
Cleaning range:	up to Ø 2.50 m at 2 bar (T50-1130, water 20 °C)
Materials (product-contact):	Stainless steel 1.4404; Hastelloy C-22 (2.4602); FFKM; C-PTFE; PTFE; Turcon MF4; EPDM
Surface finish:	Electropolished; product-contact surfaces Ra < 0.8 µm
max. operating temperature:	approx. 85 °C (185 °F), up to 120 °C (248 °F) in special version
max. ambient temperature (outside):	approx. 60 °C (140 °F), higher on request; sensors max. 60 °C (140 °F)
max. ambient temperature (inside):	approx. 140 °C (284 °F), up to 225 °C (437 °F) in special version
max. SIP temperature:	approx. 140 °C (284 °F), 30 min
Mounting connection:	Weld-in flange / Tri-Clamp (TC) / flange connection (to customer requirements)
Liquid connection:	DN 25 Tri-Clamp (TC) / weld end / threaded connection (to customer requirements)
Air connection:	2 × G 1/4"
Sensors:	Open/closed position feedback
Weight:	depending on stroke length and version (typical value on request)
Certificates / documentation:	Inspection certificate 3.1 (3.2 on request), 2.1, FDA, EC 1935/2004, EU 10/2011, declaration of conformity, ATEX non-objection certificate, further documents on request

RTAA T50 retractor – Pneumatically actuated retractable cleaning system

Flow Rates and Spray Ranges



Nozzle type T50-1130, water 20 °C; flow rates according to the flow rate data.

Flow Rate Data

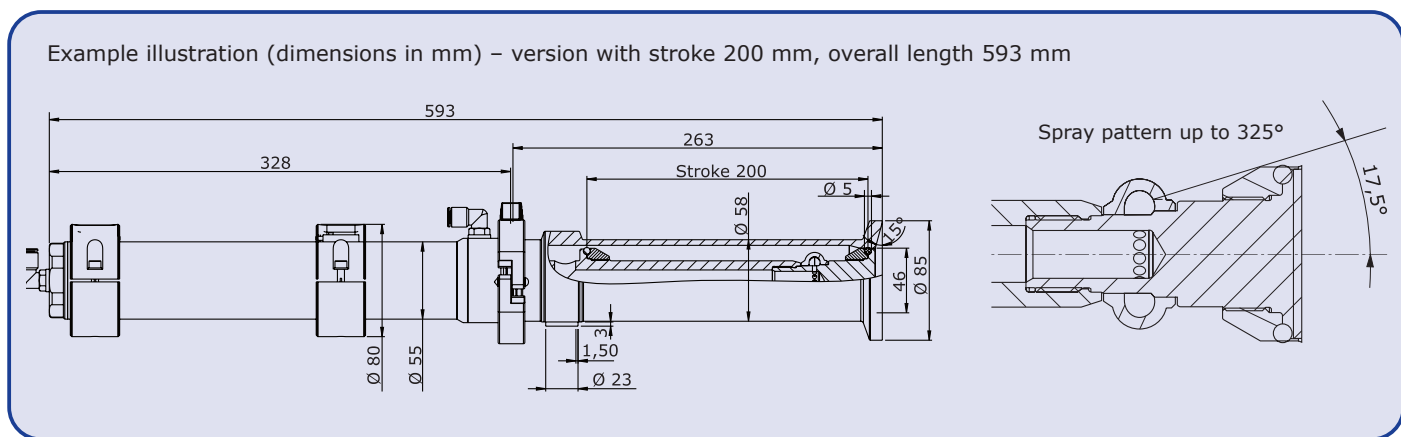
Type T50-1130

Pressure (bar)	m³/h	L/h	L/min
0.5	1.02	1020	17
1.0	1.56	1560	26
1.5	1.92	1920	32
2.0	2.28	2280	38
2.5	2.52	2520	42
3.0	2.88	2880	48
3.5	3.00	3000	50
4.0	3.36	3360	56
4.5	3.60	3600	60
5.0	3.66	3660	61

Type T50-0426

Pressure (bar)	m³/h	L/h	L/min
0.5	0.60	600	10
1.0	0.72	720	12
1.5	0.90	900	15
2.0	1.08	1080	18
2.5	1.14	1140	19
3.0	1.26	1260	21
3.5	1.32	1320	22
4.0	1.38	1380	23
4.5	1.44	1440	24
5.0	1.56	1560	26

Other flow rates available on request.



The specifications, technical data and information provided do not release the user from their own responsibility to check the supplied products for suitability for the intended application. All information is provided without guarantee. (Status: 27.09.2026-71427321893-1888948-71042) · Page 2/2