



TORUS

- High speed
- Low flow rate
- Low pressure requirement
- Compact design



- FDA and ATEX possible at the same time
- Very few individual components
- Pressure range 1 – 4 bar
- Cleaning diameter up to 3.3 m
- Flow rate between 15 – 77 lpm
- Ideal for pipelines and silos
- Available as TORUS 100 version
- also available as CHEMITORUS

The TORUS is suitable for low-pressure applications with low water volumes. The ability to operate the TORUS at even low pressures and flow rates from 15L gives it an advantage for many applications. In operation, the cleaning liquid causes a rotor with slots to rotate rapidly, causing high-energy droplets to impact all around.

The TORUS consists of only 2 parts and is ideal for impact cleaning and continuous cleaning with a strong cleaning effect. The TORUS cleans itself during operation. Due to the sliding bearing system of the TORUS, these nozzles can often be used for years with almost no wear.

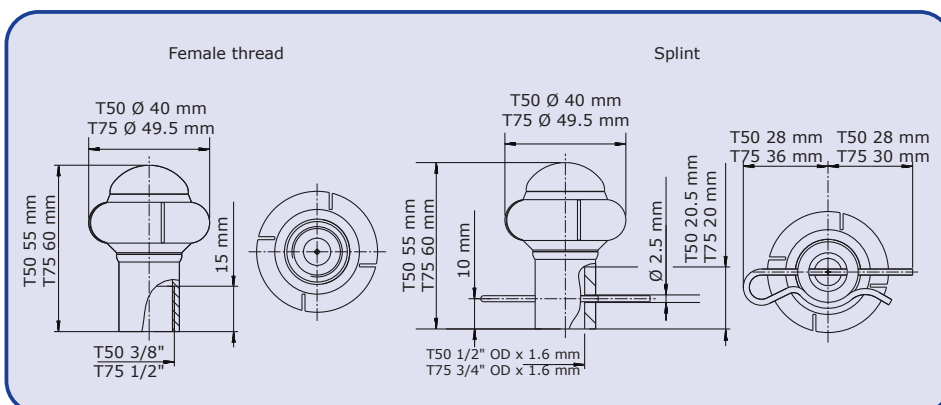
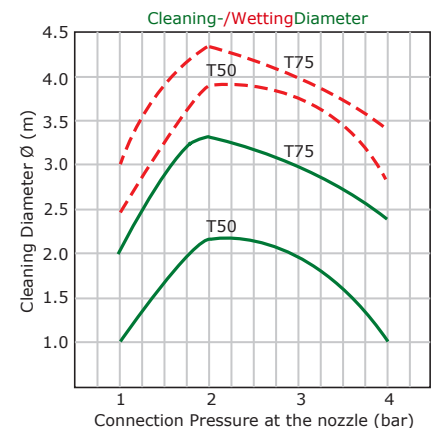
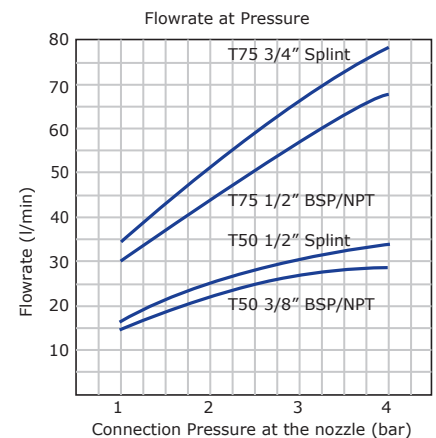
The TORUS promises exceptional service life even when used with compressed air or superheated steam sterilisation and high temperatures (depending on the application). The TORUS can replace static spray balls in containers up to 3.3 metres and produces a fully covering distribution and good mechanical cleaning effect with a small amount of liquid. The TORUS is suitable for cleaning vessels and plant components in highly sensitive applications. It is compactly designed so that it can be installed inside pipelines.

The TORUS is available in 3 different sizes. The TORUS is made of FDA and/or ATEX certified materials. For the first time, ATEX and FDA certificates can be issued for these cleaning nozzles at the same time. The TORUS is available in 360° and 180° versions.

The TORUS is also available as CHEMITORUS made of complete PTFE, C.PTFE or Hastelloy as well as TORUS 100.

Technical data:

Max. cleaning diameter:	Torus50 2,2 Meter, Torus75 3,3 Meter
Spray pattern:	180° and 360° up and downwards
Pressure range:	1 – 4 bar (14.5 – 58 psi)
Flow rate:	Torus50 15 – 33 LPM, 3.59 – 8.72 US gpm Torus75 30 – 77 LPM (0,9 – 4,6 m³/h), 7.93 – 20.34 US gpm
Insertion opening:	T50 BSP/NPT min. Ø 42 mm 1.7 Inch, Splint min. Ø 58 mm 2.3 Inch T75 BSP/NPT min. Ø 52 mm 2.1 Inch, Splint min. Ø 68 mm 2.7 Inch
Mounting position:	any angle
Weight:	Torus50 ca. 0,11 KG, 0.24 lbs, Torus75 ca. 0,16 KG, 0.35 lbs
Materials:	316L stainless steel, PTFE or C.PTFE
Pipe connection:	Torus50 3/8" Female BSP (NPT), Torus75 1/2" Female BSP (NPT)
Optional Pipe Connections:	Torus50 1/2" Splint, DN10 Splint Torus75 3/4" Splint, DN15 Splint
Nozzle characteristics:	Ball with slots
Certifications:	3.1, 2.2, ATEX, FDA, Regulation (EC) No 1935/2004
Max. operating temp.:	65°C (149°F)
Max. ambient temperature:	75°C (167°F), 30Min.



The data, technical data and information presented do not release the user from the obligation to check the suitability of the products supplied for the intended application. All information is without guarantee. (Status: 28.02.2022-71427321893-1888948-71042)