Turning spray nozzle

For cleaning walls inside processing room and preventing chip accumulation!

For agitating chips and sludge accumulated at the bottom of the tank!

ATN

RoHS Patent No.6557885

For countermeasures of troubles "accumulation of chips and sludge" in machining chambers and cutting fluid tanks. Patent No. 6557885 obtained. You can see various videos of turning spray nozzle on our website.



- No power required. Since it rotates 360° due to the reaction force of the jet, a single nozzle can be used to remove chips over a wide area and agitate the inside of a tank.
- By changing the angle of the injection nozzle, the turning speed and direction can be adjusted.
- It is an energy-saving design that turns at low pressure and small flow rate.
- Simple structure that is hard to to clog. It can be disassembled and cleaned while piping.
- In addition to the wall surface, we have a sales record in areas around automatic door, jig piping, vices, etc.

It can also contribute to improving production capacity and reducing labor costs by eliminating troubles of door opening/closing and abnormal seating conditions of workpieces, and shortening daily cleaning time.

Description

ATN 3 - 6 F

| | 1 | Model | | Turning spray nozzle | |
|--|------------------|-------------------------------------|----|---|--|
| | 2 | Screw type | | 3 : Rc3/8 | |
| |) | The division of injection flow rate | 6 | 6L/min(Cleaning inside processing room) | At differential pressure 0.1MPa |
| | 3 | | | 8L/min(Agitating inside tank) | (For details, see the characteristic diagram.) |
| | (4) | Purpose of use | F | Cleaning inside processing room | |
| | 4) | | FT | Agitating inside tank | |

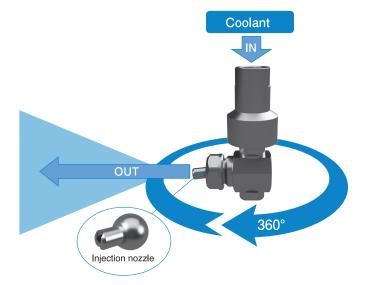
Specification

| Model | ATN3-6F | ATN3-6FT | |
|--------------------------------------|---|---|--|
| Purpose of use | Cleaning inside processing room | Agitating inside tank | |
| Max. operating pressure | 2.5MPa | 2.5MPa | |
| Withstand voltage | 4MPa | 4MPa | |
| Recommended cleaning target distance | Within 0.7 m (*) | Within 0.25 m | |
| Recommended number of rotations | 4 ~ 10rpm | 40 ~ 120rpm | |
| Recommended flow rate | 6L/min or more (Differential pressure 0.1MPa or more) | 8L/min or more (Differential pressure 0.1MPa or more) | |
| Recommended pipe diameter | Effective inner diameter ϕ 7 or more | Effective inner diameter ϕ 8 or more | |
| Main material of wetted part | SUS304,SUS303,SUS440C, FKM,NBR,UHMW | | |
| Weight | 320g | | |

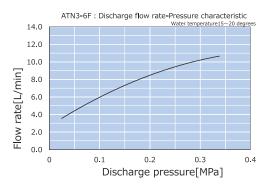
^{*} We have an optional specification which is available for cleaning longer distances. Please contact us for more information.

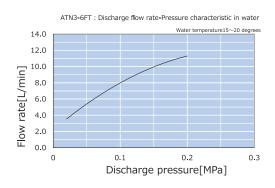
Operation principle

It turns 360 degrees using the horizontal swing angle of the injection nozzle and the reaction force generated from the coolant injection.

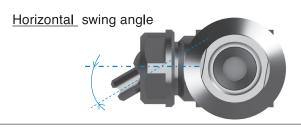


Discharge flow rate – Pressure characteristics



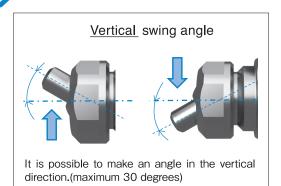


Angle adjustment of injection nozzle



| Relationship between the horizontal angle of the injection nozzle | | |
|---|-----------|--------------|
| | and the t | urning speed |
| Swing angle (maximum 30 degrees) | Low | High |
| Turning speed | Slow | High speed |

If the horizontal angle of the injection nozzle is turned to the opposite side, it rotates in the opposite direction.



Adjustment method of turning speed

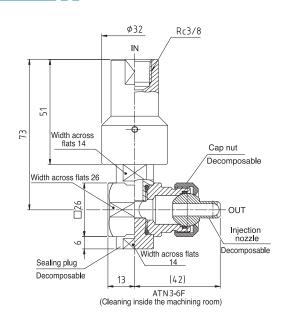


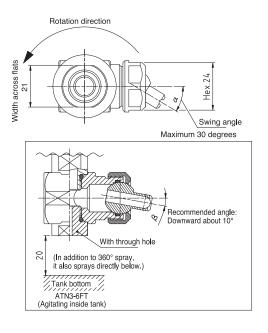
You can check the video of adjustment method from QR code or following URL. URL: https://youtu.be/DZyp7BEMuCY

The turning speed changes depending on the combination of "Discharge flow rate · Pressure" and "Horizontal angle of injection nozzle".

If you adjust the speed, it will be easier to adjust if a ball valve is installed just before the nozzle.

Dimension





Universal nozzle for coolant

Stop of coolant dripping! Nozzle with check valve that can be disassembled and cleaned!

UN/UNC

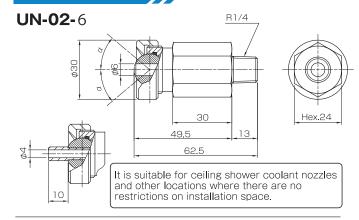


- A universal nozzle has a check valve inside. Immediately when a coolant pump is stopped, dripping of coolant from a nozzle is suspended. It is reduction of work time.
- Should a nozzle be clogged with chips, you can disassemble and clean it from the nozzle side.
- You can manually move a nozzle freely 80 degrees in all directions. (UNO: 90 degrees)
- Clean working environment without coolant splash.
- Effective for a ceiling shower coolant nozzle of a machining center.
- A type of nozzle with a branch is available, whose nozzle end is long for correctly shooting coolant at a work machining spot.

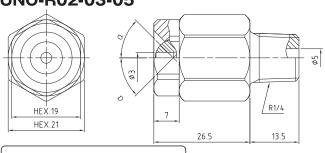
Specification

| | Model | UN | UN UNO | |
|-------------------|----------------------------------|-----------------------------|---------------------|---------------------------|
| | Screw type | R1 | M18 × 1.5 | |
| | Sealing type | Taper so | Copper packing type | |
| | | Ф6 | | Ф6 |
| | Nozzle diameter | Ф 4 (With a branch) | Ф3 | Ф 4 (With a branch) |
| | | ± 40° | | ± 40° |
| 1 | Nozzle swivel angle (α) | With a branch : ± 30° | ± 45° | With a branch: ± 30° |
| | Weight | 150g | 80g | 60g |
| - 1 | Max.pressure | 7 MPa | 1 MPa | 7 MPa |
| | Resistance | 11MPa | 2 MPa | 11MPa |
| | Cracking pressure | 0.01MPa | 0.05MPa | 0.01MPa |
| _ | Body | C3604BD (Chromium plating) | | |
| late | Check valve | SUS630 | SUS303 | |
| Materia | Others | NBR | FKM | NBR |
| | | SUS304 | | |
| | Packing material | _ | | C1100 |
| Packing dimension | | _ | 18 × 22 × 2 | |

Dimension



UNO-R02-03-05

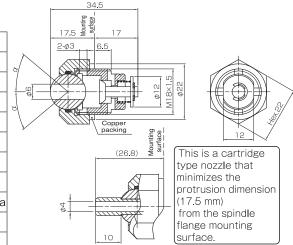


This is a small, space-saving nozzle.

Description UN - 02 - 6 - 10L

| 1 2 | | |) | 3 | |
|-----|-----------------|-------|----------|---|----------------------|
| | | | UN | Universal nozzle | |
| 1 | Mode | el | UNO | Universal nozzle(compact) | |
| | | | UNC | Universal nozzle for cartridge | |
| | Screw type | UN | 02 | R1/4 | |
| 2 | | UNO | R02 | R1/4 | |
| | | UNC | 18 | M18 × 1.5 | |
| | Model number | | LINI | 6 | Nozzle (inside): 6mm |
| | | UN | 6-10L | Nozzle (inside): 4mm Branch length: 10mm | |
| 3 | | UNO | 03-05 | Nozzle (inside): 3mm Cracking pressure: 0.05MPa | |
| | | LINIC | 6-M1 | Nozzle (inside): 6mm | |
| | | UNC | 6-M1-10L | Nozzle (inside): 4mm Branch length: 10mm | |
| | | | | | |

UNC-18-⊠







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