



## Tank cleaning nozzle in hygienic design

### Construction

The RotaJet is an interior cleaning nozzle with hydraulic drive which has been manufactured according to the latest technology. Its construction reducing dead storage and using a minimum of components is carried out in compliance with hygienic guidelines. All materials used conform with FDA stipulations. The innovatively arranged water support of the rotational body along with the high standard of manufacturing quality plus excellent materials guarantee superb quality and a long service life. The economic efficiency of the machine is unique owing to the ingeniously shaped boreholes along with the loss-reduced method of flushing the entire body with the cleaning agent.

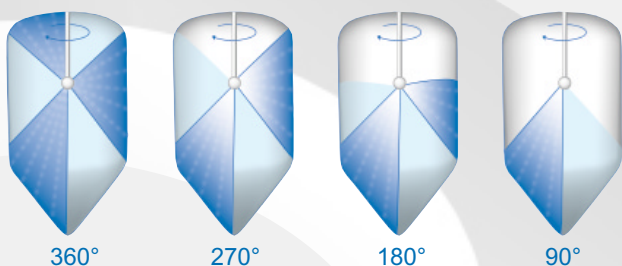
### Method of operation

A spacial spray pattern is created by the rotational movement of the cleaning head. Owing to the innovative driving procedure which reduces the operating speed of the rotational body a constant spraying pattern is reproduced on the container's interior surface. This ensures the optimal wetting of the entire interior surfaces and guarantees the repeatability and validatability of the cleaning result.

### Customisation

The RotaJet is adapted in accordance with the specific ecological and economical requirements. Performance parameter regarding the diameter and positioning of the nozzles are customised according to specific requirements of the tank to be cleaned (degree of contamination etc.). Cleaning pressure can be achieved continuously up to 50 bar. Versatility of fixing and positioning enable more complicated cleaning processes to be carried out in tanks of different shapes and sizes. The StatoJet can be integrated in automated cleaning processes such as CIP.

### Operating Sequence of Cleaning spray pattern



Depending on the type the Rotajet will create an individual spraying pattern on the tank inner surface. The spraying nozzles can be positioned either from the top or from the bottom of the tank and the direction of the spraying nozzles controlled in whichever direction is desired.

## RotaJet

rotating nozzles

### Product description



RotaJet with  
drilled nozzles

### Application

- Reactors
- Vats
- Silos
- boilers
- Mixer
- Blenders
- Stirring vessels
- Barrels
- Casks
- Skips
- Containers
- Canisters
- Storage tanks
- Transport tanks
- Fermentation tanks
- Basins



RotaJet with  
slotted nozzles

### Branches

- Chemical industry
- Fine chemical industry
- Petrochemical industry
- Food and beverage industry
- Paper industry
- Pharmaceutical industry
- Cosmetic industry
- Paint and Varnish industry
- Biochemical industry
- Bio technological industry
- Transport
- Machine construction
- Plant construction

### Certificates

- ATEX
- CE
- Patents
- Material Certificate

### Details

- all mounting positions possible
- optional magnetic drive
- variety of motors extensive accessories
- according to FDA
- according to GMP
- EHEGD-conformity



### Machine specification

#### volume current at 6 bar (360°)

- RJ 15: 0,6 m³/h
- RJ 32: 2,3 m³/h
- RJ 60: 4,5 m³/h
- RJ 100: 8,5 m³/h

#### operational pressure

- 1 - 10 bar
- > 10 bar \*\*

#### operational temperature

- 5 - 95 °C
- max. 140 °C short time

#### spray scope

- 500 - 4500 mm radius varies according to number of nozzles

#### Cleaning cycle

- random

#### Flushing

- optimised

#### cleaning pattern

- 90°, 180°, 270°, 360° spacial
- Specific patterns\*\*

#### Configuration of nozzles

- depending on type

#### mounting position

- any

#### weight

- RJ 15: 13 g
- RJ 32: 77 g
- RJ 60: 419 g
- RJ 100: 1500 g

#### Process connection

- screw
- Splint
- Welding end
- Customer specified \*\*

#### drive

- hydraulic

#### material

- 1.4404
- 1.4435 \*
- PTFE
- special materials\*\*

#### Lubrication

- self lubricating

#### Filter fineness

- 30 µm necessary

#### ph-tolerance

- pH 3 - 14

#### Surface-Design

- Industry (Type I)  
Ra < 1,6 µm
- Pharma\* (Type P)  
Ra < 0,8 µm\*
- Ra < 0,4 µm\*

#### Nozzle-Design

- no wastage of space

\*optional

\*\* possible on demand

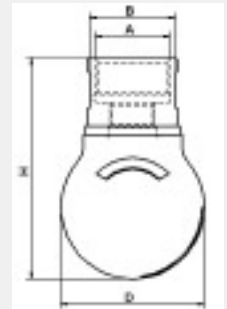
# RotaJet

rotating nozzles

### Technical Data

#### Mounting measurements [mm]

	B	D	H
<b>RJ 15</b>	SW 10	15,8	28
<b>RJ 25*</b>	SW 15	24,8	43
<b>RJ 32</b>	SW 19	31,8	49
<b>RJ 60</b>	SW 38	59,8	86
<b>RJ 100</b>	SW 62	99,8	128

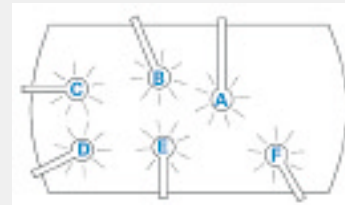


#### Diameter (A) for

	Splint-version [mm]			thread DIN ISO
	DIN	ISO	ASME- BPE 1997	
<b>RJ 15</b>	8	-	9,53	G 1/8"
<b>RJ 25*</b>	13	13,5	12,70	G 1/4"
<b>RJ 32</b>	13	13,5	12,70	G 3/8"
<b>RJ 60</b>	35	33,7	38,10	G 1"
<b>RJ 100</b>	54	48,3	50,80	G 2"

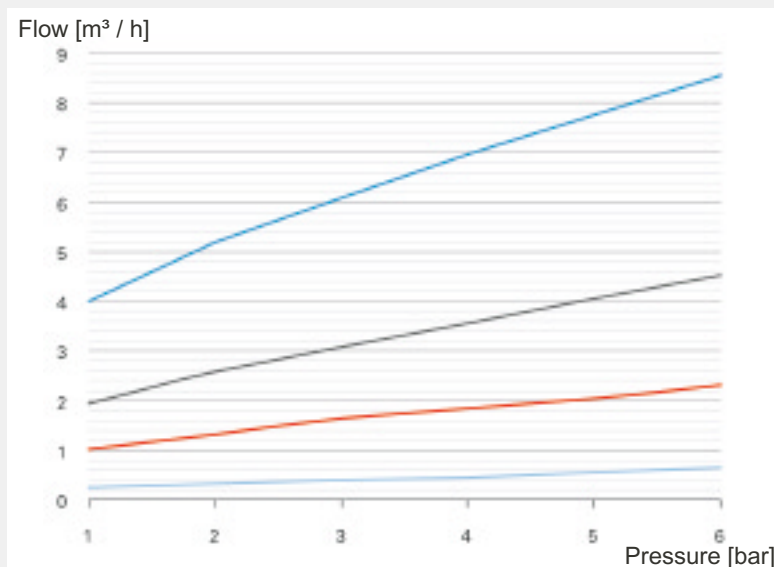
### Mounting options

The RotaJet can be mounted concentric or non concentric in the tank. Furthermore all positions can be fastened or adapted for mobile operation.



- A** hanging vertical from top of tank
- B** slanting from top
- C** horizontal sideways
- D** slanting sideways
- E** verticle stance from base of tank
- F** slanting from base

### Performance data RotaJet 360°



#### Spray-angle [°]

#### Cleaning-diameter [m]

#### Flow 6 bar [m³/h]

#### RotaJet 15

90°	0,2 - 1,0	on demand
180°	0,8 - 1,5	on demand
270°	0,8 - 1,5	on demand
360°	0,8 - 1,5	0,6

#### RotaJet 32

90°	0,8 - 1,5	on demand
180°	1,5 - 2,8	on demand
270°	1,5 - 2,8	on demand
360°	1,5 - 2,8	2,3

#### RotaJet 60

90°	2,0 - 3,5	on demand
180°	2,8 - 4,5	on demand
270°	2,8 - 4,5	on demand
360°	2,8 - 3,5	4,5

#### RotaJet 100 IG

90°	2,0 - 3,5	on demand
180°	2,8 - 4,5	on demand
270°	2,8 - 4,5	on demand
360°	2,8 - 3,5	8,5

— RotaJet 15 — RotaJet 32 — RotaJet 60 — RotaJet 100