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AquaDuna
Reinigungssysteme

Tank cleaning nozzle in hygienic design

Construction

The StatoJet is a static interior cleaning nozzle which has been manufactured according to the latest technology. The design and the construction reducing dead storage are carried out in compliance with hygienic guidelines. All materials used conform with FDA stipulations. The high standard of manufacturing quality plus excellent materials guarantee superb quality and an almost unlimited 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.

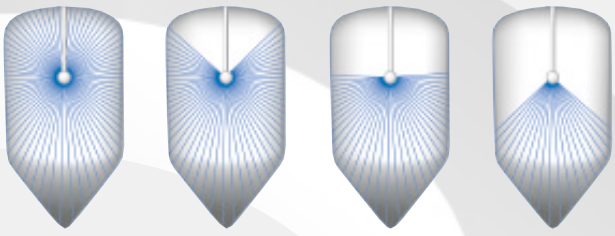
Method of operation

The individual arrangement of the nozzles is responsible for the final spray pattern. The spraying pattern can be selected by the customer according to the specific requirements of the vessel. It reproduces a constant cleaning spray pattern on the tank wall. This ensures the optimal wetting of the entire interior surfaces and guarantees the repeatability and validatability of the cleaning result.

Customisation

The StatoJet 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.). The maximum allowable pressure is 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



360° 270° 180° 90°

Depending on which type is selected the spraying pattern on the tank surface varies accordingly. The jets can be directed either toward the top or the bottom of the tank.

StatoJet

static nozzles

Product description

StatoJet 180°

StatoJet 360°

Application

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

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

- Material Certificate

Details

- all mounting positions possible
- extensive range of accessories
- according to FDA
- according to GMP
- EHEGD-conformity

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StatoJet

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Technical Data

Machine specification

volume current at 6 bar (360°)
- SJ 25: ca. 3,6 m³/h
- SJ 50: ca. 5,5 m³/h
- SJ 80: ca. 7,5 m³/h

Operational pressure
- up to 50 bar

Operational temperature
- 5 - 150 °C

spraying scope
- 200 - 4500 mm radius depends on selected equipment

Cleaning cycle
- random

Flushing
- optimised

Cleaning pattern
- spacial 90°, 180°, 270°, 330° (theoretically 360°)
- special patterns**

Number of nozzles
- 61 Standard
- random *

Mounting postition
- random

Weight
- SJ 15: ca. 55 g
- SJ 50: ca. 500 g
- SJ 80: ca. 1900 g

Process connection
- DIN ISO
- Splint
- Welding end
- Customer specified **

Materials
- 1.4404
- 1.4435 *
- PTFE
- Special materials **

Filter fineness
- 200 µm recommended

ph-tolerance
- pH 3 - 14

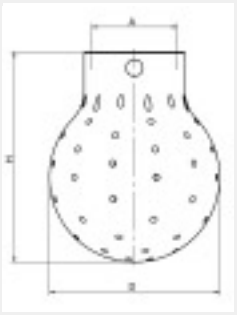
Surface-Design
- Industry (Type I) Ra < 1,6 µm
- Pharma* (Type P) Ra < 0,8µm**

Nozzle-Design
- no space wastage

*optional
** possible on demand

Mounting measurements [mm]

	D	H
SJ 25	25	34
SJ 32*	32	40
SJ 45*	45	50
SJ 50	50	65
SJ 80	80	100

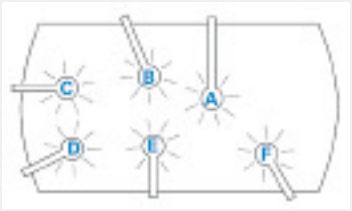


Diameter (A) for Splint-version [mm]

	DIN 11850	ISO 1127	ASME-BPE 1997	thread DIN ISO 228-1
SJ 25	10	10,2	9,53	G 1/4”
SJ 32*	19	17,2	19,05	G 1/2”
SJ 45*	19	21,3	19,05	G 1/2”
SJ 50	19	21,3	19,05	G 1/2”
SJ 80	35	33,7	38,10	G 1”

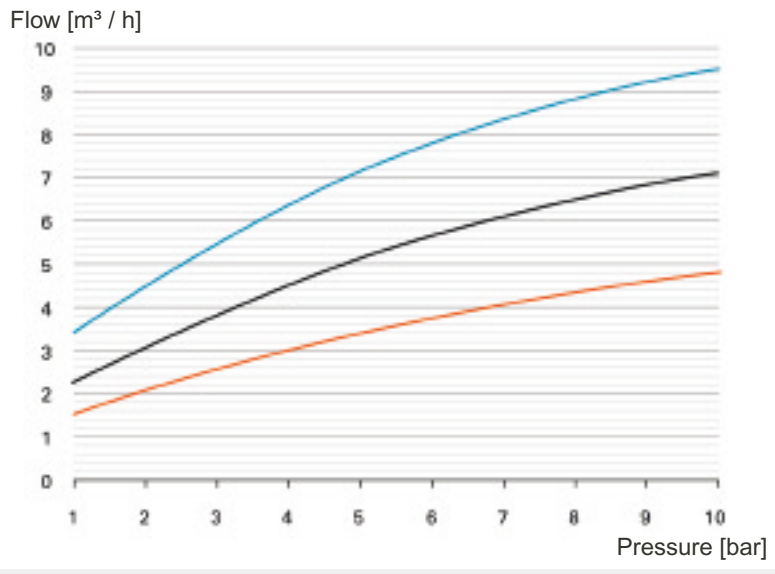
Mounting options

The StatoJet 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



___ StatoJet 25 330° ___ StatoJet 50 330° ___ StatoJet 80 330°

Leistungdaten

Spay-angle [°]	Cleaning-Diameter [m]	Flow 6 bar [m³/h]
StatoJet 25		
90°	0,5 - 1,0	on demand
180°	0,8 - 1,5	on demand
270°	0,8 - 1,5	on demand
330°	0,8 - 1,5	3,6
StatoJet 50		
90°	0,8 - 1,5	on demand
180°	1,5 - 2,8	on demand
270°	1,5 - 2,8	on demand
330°	1,5 - 2,8	5,5
StatoJet 80		
90°	2,0 - 3,5	on demand
180°	2,8 - 4,5	on demand
270°	2,8 - 4,5	on demand
330°	2,0 - 3,5	7,5