

# The Most Advanced Frontier of Centrifugal Atomizers

Tradition Enriched with Innovation  
in CIP Retractable Nozzles



# AM Atomizers Technology

Highly Competent, Global and Innovative  
Rotary Atomizers and CIP Retractable Nozzles

**AM Atomizers Technology was founded in 2018 with one purpose in mind:**

to turn the **oil free** rotary atomizer technology from its original niche application into the reference technological paradigm.



**International  
Sound and  
Global View**



**With Modern  
Transmission  
System** developed  
by AM Atomizers



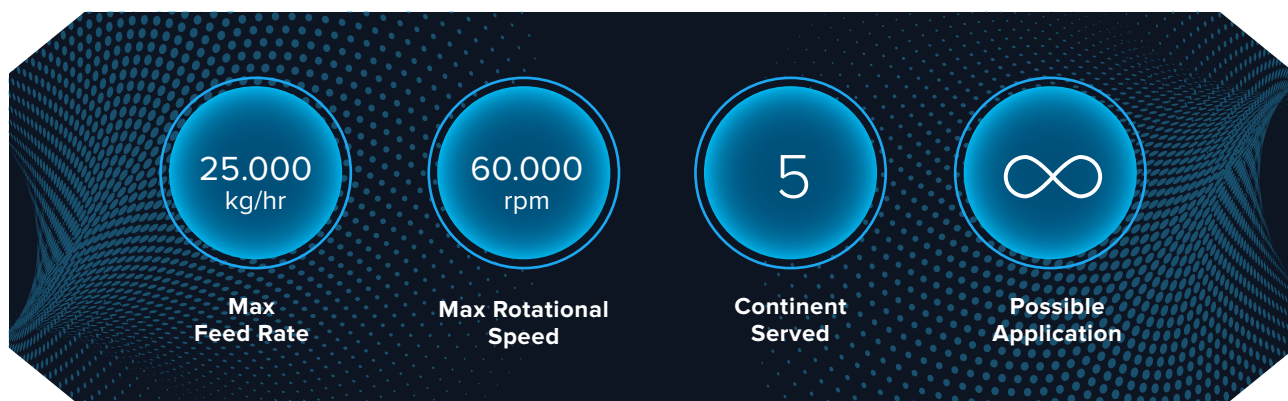
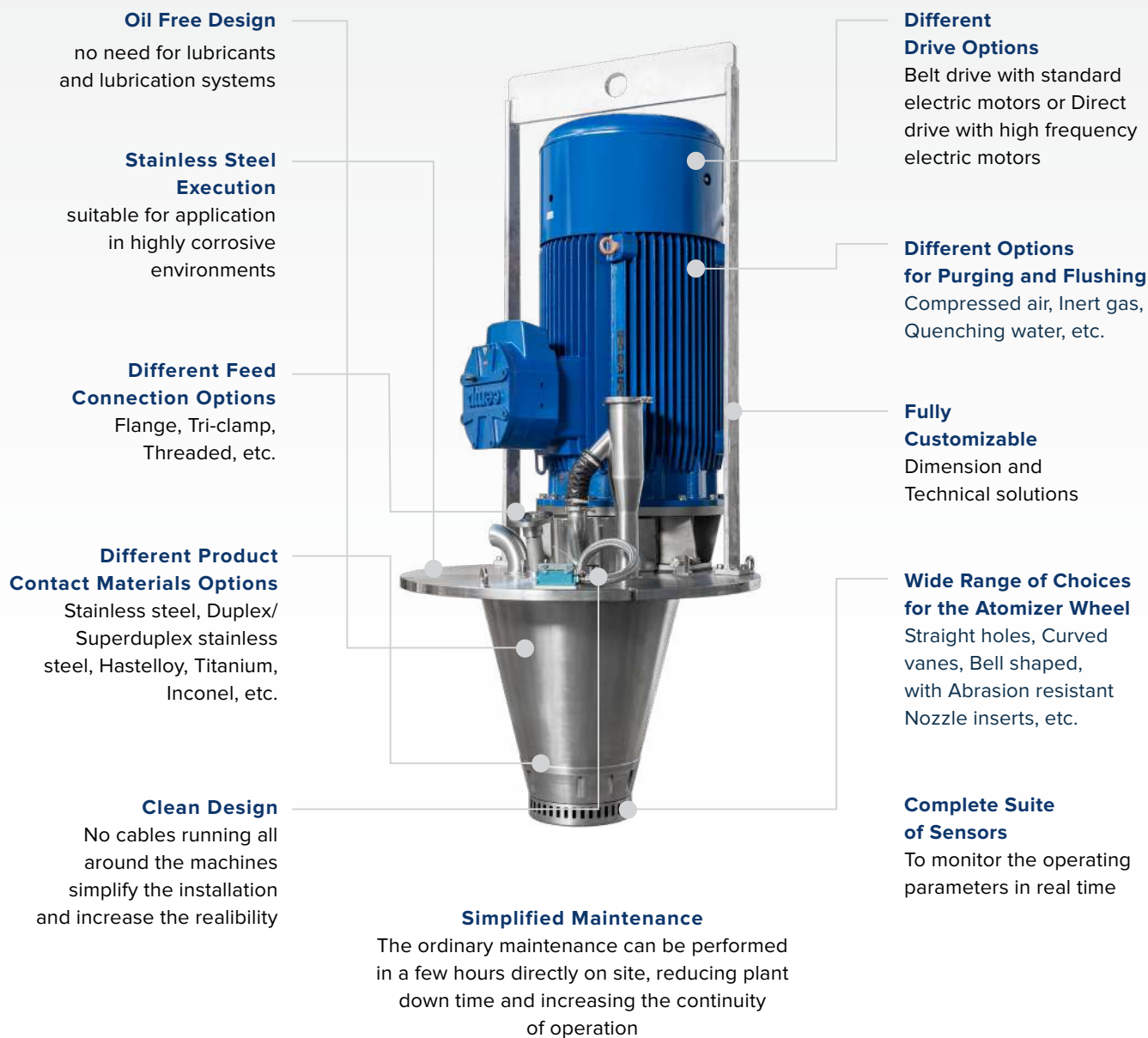
**From 0,5 kg/h to 25  
t/h** with no risk  
of powder  
contamination



**CIP Retractable  
Nozzles**  
Flexibles and  
Efficient



# Our Product Philosophy





## Our Project Sectors



**Food**



**Milk and Dairy**



**Flavors**



**Pharmaceutical**



**Chemical**



**Fertilizers**



**Solvent  
Recovery**



**Polymers,  
Waxes and Fats**



**Ceramics  
and Catalysts**



**Spray Cooling  
Process  
Applications\***



**Metal and Metal  
Oxide Powders**  
(Lithium, Cobalt, Nickel, etc.)  
for Battery Applications\*



**Flue Gas Cleaning  
(FGC) / Flue Gas  
Desulphurization  
(FGD)\***

\*Specific designs for these applications are available.



# Spare Parts

We do not limit ourselves to the spare parts that can be supplied!



## Examples

Atomizer Wheels • Liquid Distributors • Spindles • Housings  
 Bearing Guides • Feed Chamber • Gears Box Set • Volutes



## RANGE OF OIL AND LIQUID FREE AM ATOMIZERS

# Large and Industrial Applications for All Sectors



**Wheels Selection upon  
the Operating Conditions :**

Ø 210 ÷ 450 mm, Available  
Stainless Steels and Special Alloys

### AM-250-B-A

#### Specification

Wheel Speed 6,000-15,000 rpm

Feed Rate – max 40 t/h

Installed Power 90-355 kW

#### The accompanying monitoring system comprises :

- » Spindle displacement alarm
- » Accelerometer vibration alarms
- » Bearings temperature alarm
- » Tachometer system to register wheel speed
- » Flooding alarm

#### Various Types and Sizes of Wheel Available:

With Nozzles
With Straight or Curved Channels
With Holes
Narrow PDS
Bell wheel
Pin Wheel

## RANGE OF OIL AND LIQUID FREE AM ATOMIZERS

# Large and Industrial Applications for All Sectors

### AM-075-B-A

#### Specification

Wheel Speed 6,000-15,000 rpm

Feed Rate – max 12,5 t/h

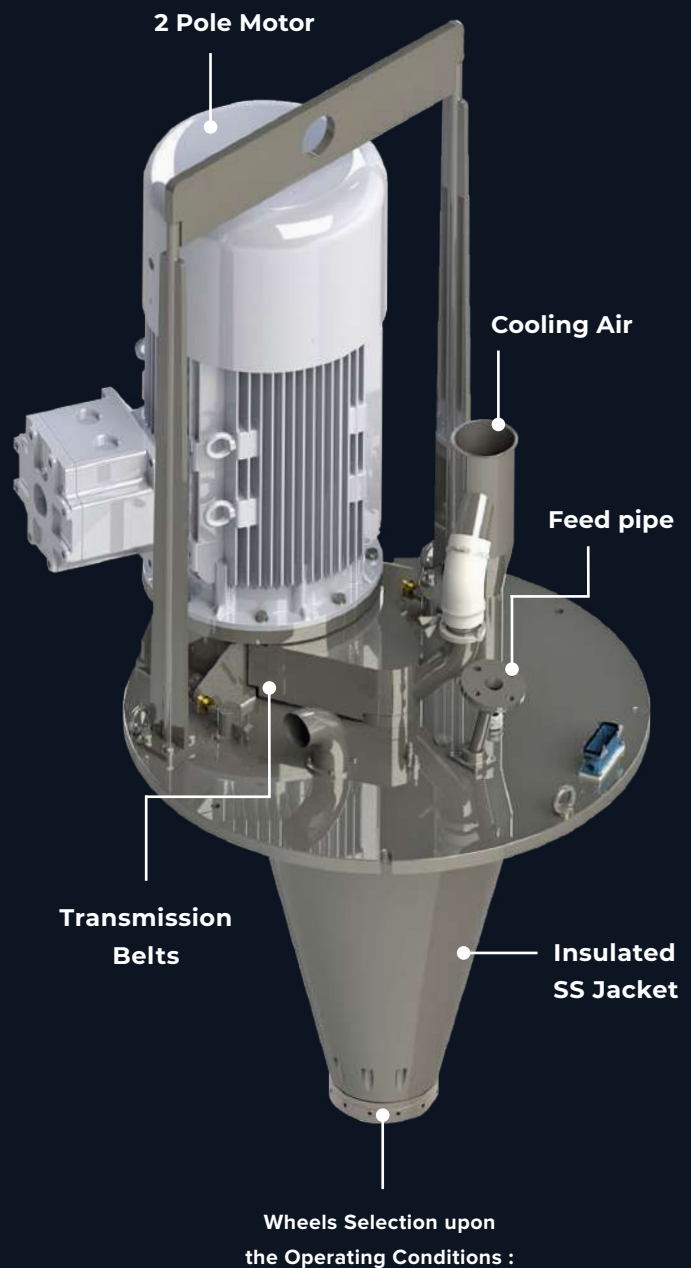
Installed Power 18,5-90 kW

#### The accompanying monitoring system comprises :

- » Spindle displacement alarm
- » Accelerometer vibration alarms
- » Bearings temperature alarm
- » Tachometer system to register wheel speed
- » Flooding alarm

#### Various Types and Sizes of Wheel Available:

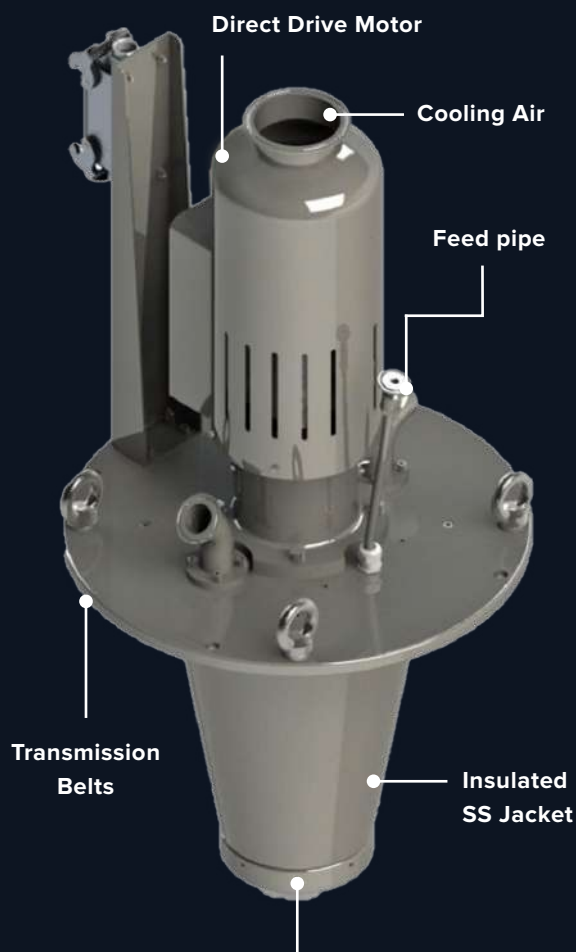
With nozzles
With Straight or Curved Channels
With Holes
Narrow PDS
Bell wheel
Pin Wheel



Ø 150 ÷ 350 mm, Available  
Stainless Steels and Special Alloys

## RANGE OF OIL AND LIQUID FREE AM ATOMIZERS

# Direct Drive for All Applications



**Various Types and Sizes of Wheel Available:**

With Nozzles
With Straight or Curved Channels
With Standard Holes
Narrow PDS
Bell Wheel
Pin Wheel

**Wheels Selection upon  
the Operating Conditions :**

Ø 150 ÷ 350 mm, Available  
Stainless Steels and Special Alloys

### AM-005-D-A

#### Specification

Wheel Speed 10-35,000 rpm

Feed Rate – max 500 kg/h

Installed Power 3 – 5 kW

#### The accompanying monitoring system comprises :

- » Spindle displacement alarm
- » Accelerometer vibration alarms
- » Bearings temperature alarm
- » Tachometer system to register wheel speed
- » Flooding alarm





## RANGE OF OIL AND LIQUID FREE AM ATOMIZERS

# Spray Cooling Applications

### AM-075-D-X(SC)

#### Specification

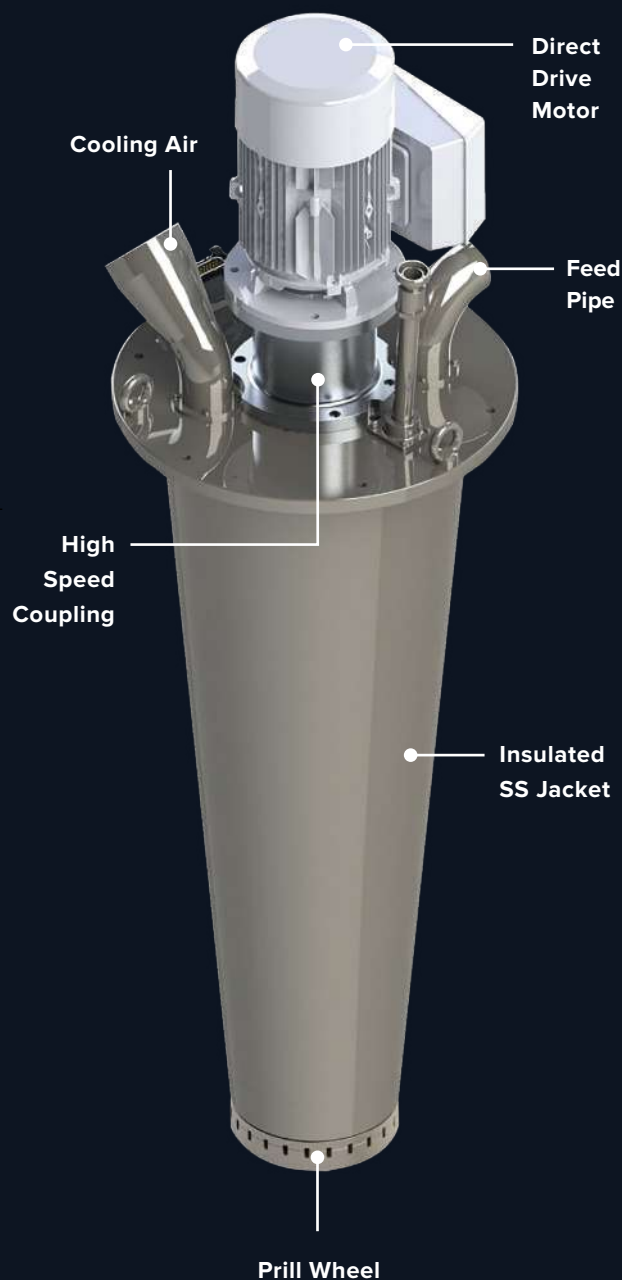
Wheel Speed 1000-6500 rpm

Feed Rate – max 20 t/h

Installed Power up to 60 kW

#### The accompanying monitoring system comprises :

- » Spindle displacement alarm
- » Accelerometer vibration alarms
- » Bearings temperature alarm
- » Tachometer system to register wheel speed
- » Flooding alarm



Ø 150 ÷ 450 mm, Available  
Stainless Steels and Special Alloys

## RANGE OF OIL AND LIQUID FREE AM ATOMIZERS

# Laboratory and Pilot Plant Application



**Various Types and Sizes  
of Wheel Available:**

With Nozzles
With Straight or Curved Channels
With Holes

**Wheels Selection Upon  
the Operating Conditions :**

Ø50 - 75 mm
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### AM-005-D-L

#### Specification

Wheel Speed 19000 - 60000 rpm

Feed Rate – max 20 kg/h

Installed Power 0,75 kW

#### Laboratory Application

The AM Centrifugal Atomizers for Laboratory Applications are high speed rotating machines specifically designed for use in laboratory scale spray drying and spray cooling processes.



## RANGE OF AM CIP NOZZLES

# High and Low Flow Versions

The AM Rotary Spray Nozzle is a retractable cleaning device specifically intended for use in harsh and heavily dust laden environments (cyclones, reactors, storage vessels, etc).

The use of high quality materials, a customer-oriented design and years of engineering experience make our nozzles the best choice when it comes to find a reliable Retractable cleaning device.

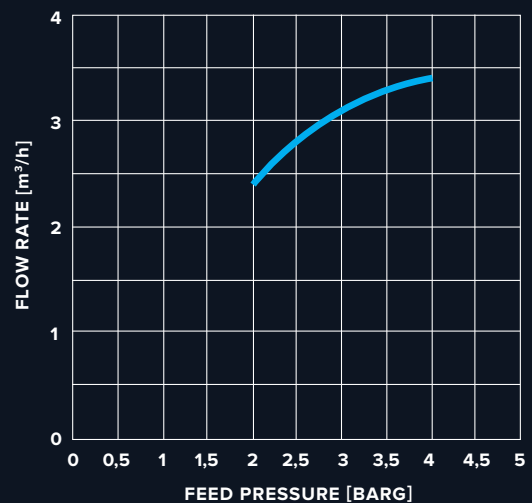
### RI VERSION

Liquid Operated - Rear Inlet



### RSNLF

Flowrate vs Feed Pressure



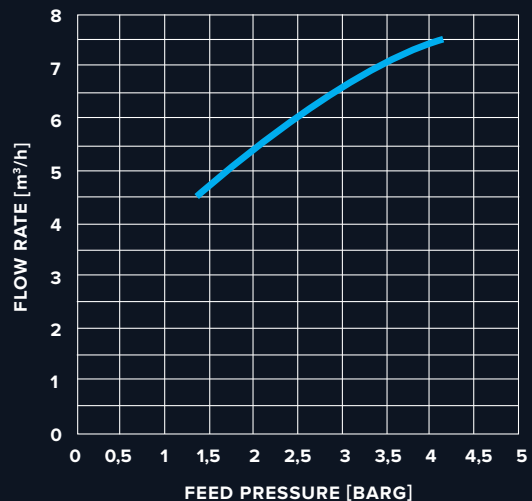
### SI VERSION

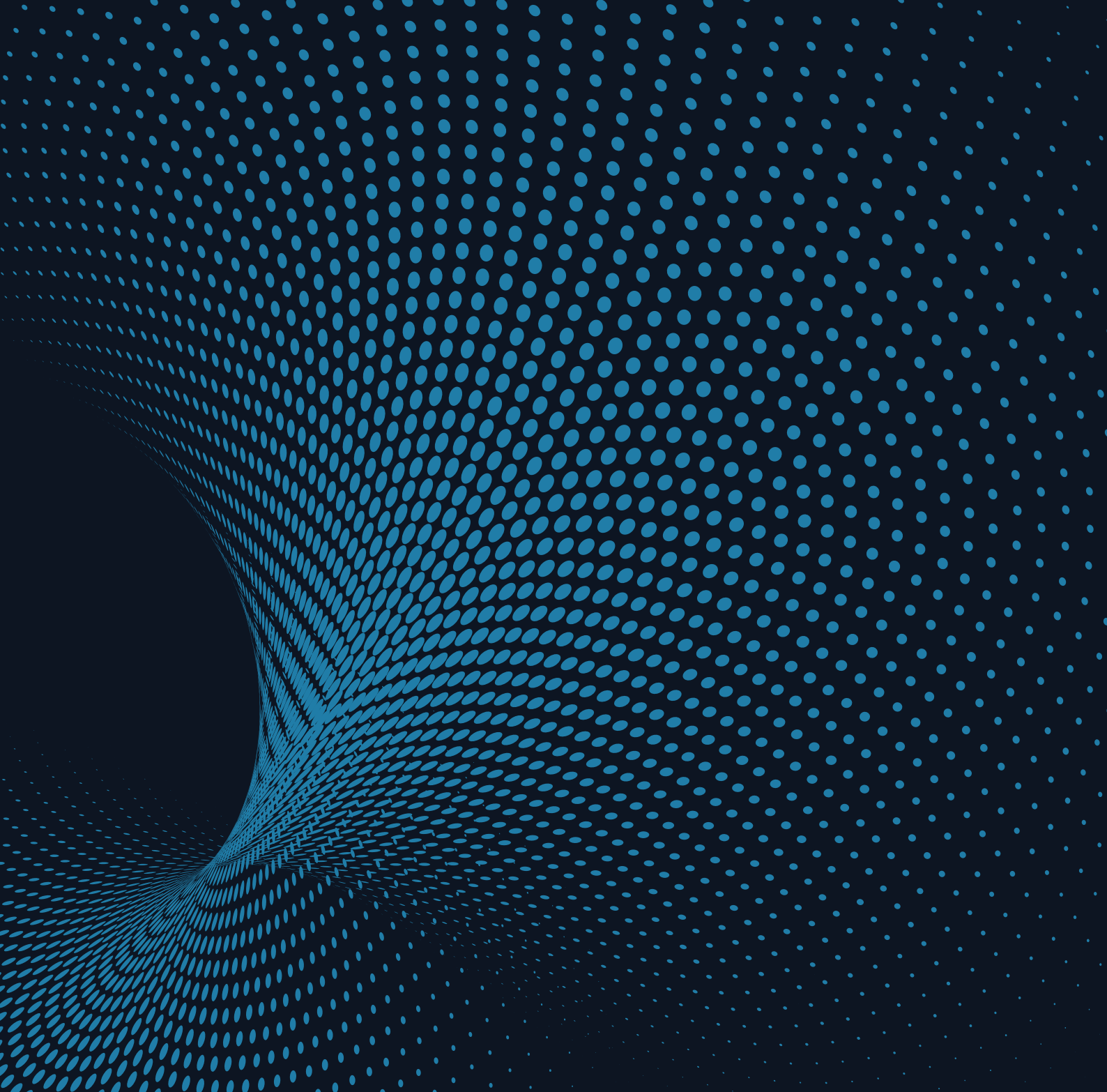
Pneumatic Actuator-operated - Side Inlet



### RSNHF

Flowrate vs Feed Pressure





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