

# Superior Mixing - Liquid, Gas and Powder

## IM 15 Rotary Jet Mixer

The patented IM 15 Rotary Jet Mixer (RJM) does not only mix fast, efficient and uniform but creates also the necessary process flexibility that makes it easy to switch to new product formulations with diverse viscosities, densities and volumes. Besides classic liquid to liquid mixing the RJM is excellent for gas and powder dispersion plus a superb tank cleaning machine.

#### **Applications**

Process and storage vessels between 2-100 m<sup>3</sup> ued in a wide range of industries such as: beer & beverage, food & ingredients, home & personal care, health care, biotech and chemical industry etc.

#### Operation

Secure that the mixer is positioned in the correct level and submerged into the liquid before round pumping or when adding any additional products from any up-stream pipe works.



#### TECHNICAL DATA

Lubricant: Self-lubricating with the mixing/cleaning fluid

Connection: Standard thread 1.5" BSP or NPT, female

Min. tank opening: See dimension drawings

Pressure

Working pressure: . . . . 2-12 bar Recommended pressure during mixing: . . . . . 2-6 bar Recommended pressure

during CIP: . . . . . . . . . . . . . . . 5-6.5 bar

#### PHYSICAL DATA

Materials

Materials: ...... AISI 316L, AISI 316, SAF 2205, PTFE, PEEK, Tefzel, Ceramics

Weight

Weight: . . . . . . . . . . . . . 6.1 kg

Temperature

#### Benefits

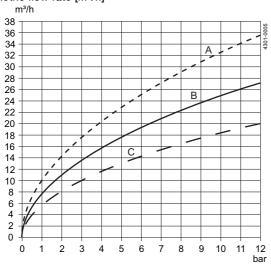
Using the IM 15 Rotary Jet Mixer makes it possible, at a modest investment, to perform fast and efficient mixing in a sanitary system. In traditional systems, using propeller mixers, a rotating shaft penetrates the tank wall, and a mechanical seal and a gear box are installed. With the Rotary Jet Mixing technology the shaft, seal and gearbox are eliminated, and a more sanitary design is obtained. With the Rotary Jet Mixing technology good mixing is achieved without the use of baffles. The Rotary Jet Mixer can also be used for gas dispersion and for dispersion and dissolving of powder. The IM 15 can furthermore be used for efficient CIP when the tank is empty, saving liquid, chemicals and energy compared to a fixed spray ball CIP system



#### Flow rate

Relationship between inlet pressure and flow rate for liquids with waterlike properties for the IM 15 Rotary Jet Mixer.

#### Volumetric flow rate [m³/h]



Inlet pressure

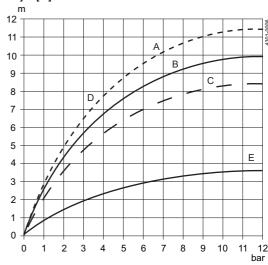
A) d = 8 mmNozzles B) d = 7 mm

C) d = 6 mm

Reach of jet

Reach of jet for the IM 15 during cleaning, and indicative reach of jet for mixing of liquids with water-like properties.

## Reach of jet [m]



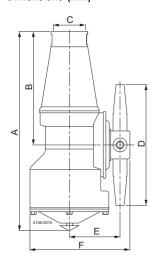
Inlet pressure

Nozzles

A) d = 8 mmB) d = 7 mm D) Cleaning E) Mixing

C) d = 6 mm

#### Dimensions (mm)





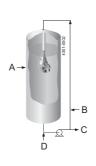




The Rotary Jet Mixing technology

Traditional Mixing technology

#### Round pumping Propeller mixing

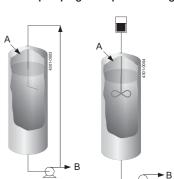


A = Rotary Jet Mixer

B = Gas

C = Product

D = Liquid feed



A = Liquid feed

B = Product

Α	В	С	D	Е	F	G	Н	J
297	170	50	204	78	152	<b>ø</b> 216	<b>ø</b> 264	ø180

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