**Twin-fluid nozzles for exhaust gas cooling**

**Series 170/180**

**Efficient atomization by mixing liquid medium and gas.**

- Internal mixing principle (a mixing chamber inside the nozzle combines a gas and a liquid to produce an intensive two-phase mixture)
- Extremely fine atomization with good control behavior
- Large clear cross sections
- Lower air consumption than for nozzles with external mixing
- Maintenance-free operation

**Applications:**
Gas cooling, humidification, flue-gas desulfurization, absorption.

The large free cross sections of the nozzle permit maintenance-free operation even for atomization of viscous and abrasive media with high solids load.

Other sizes available on request

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**Small spray angle (15°), suitable for small cross sections and horizontal channels**

**Very large turn down ratio**
Of 20:1 (in some cases up to 40:1)

**Adjustment of the droplet spectrum**
by changing the air/liquid ratio

**Very fine droplet spectrum**

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**Clog-resistant**
thanks to large free cross sections without internal fittings

**Typical pressure range**
Liquid 15–87 psi, atomizing air 15–87 psi,

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**Diagram of the Laval nozzle**

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**Table of dimensions and pressures**

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**Materials on request**

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**Diagrams:****

- Internal mixing principle
- Constriction accelerates mixture to supersonic speed
- Wire mesh and hot air inlets

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**Ordering no.**

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**Materials on request**

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**Diagram of the Laval nozzle**

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