

ENGINEERING  
YOUR SPRAY SOLUTION



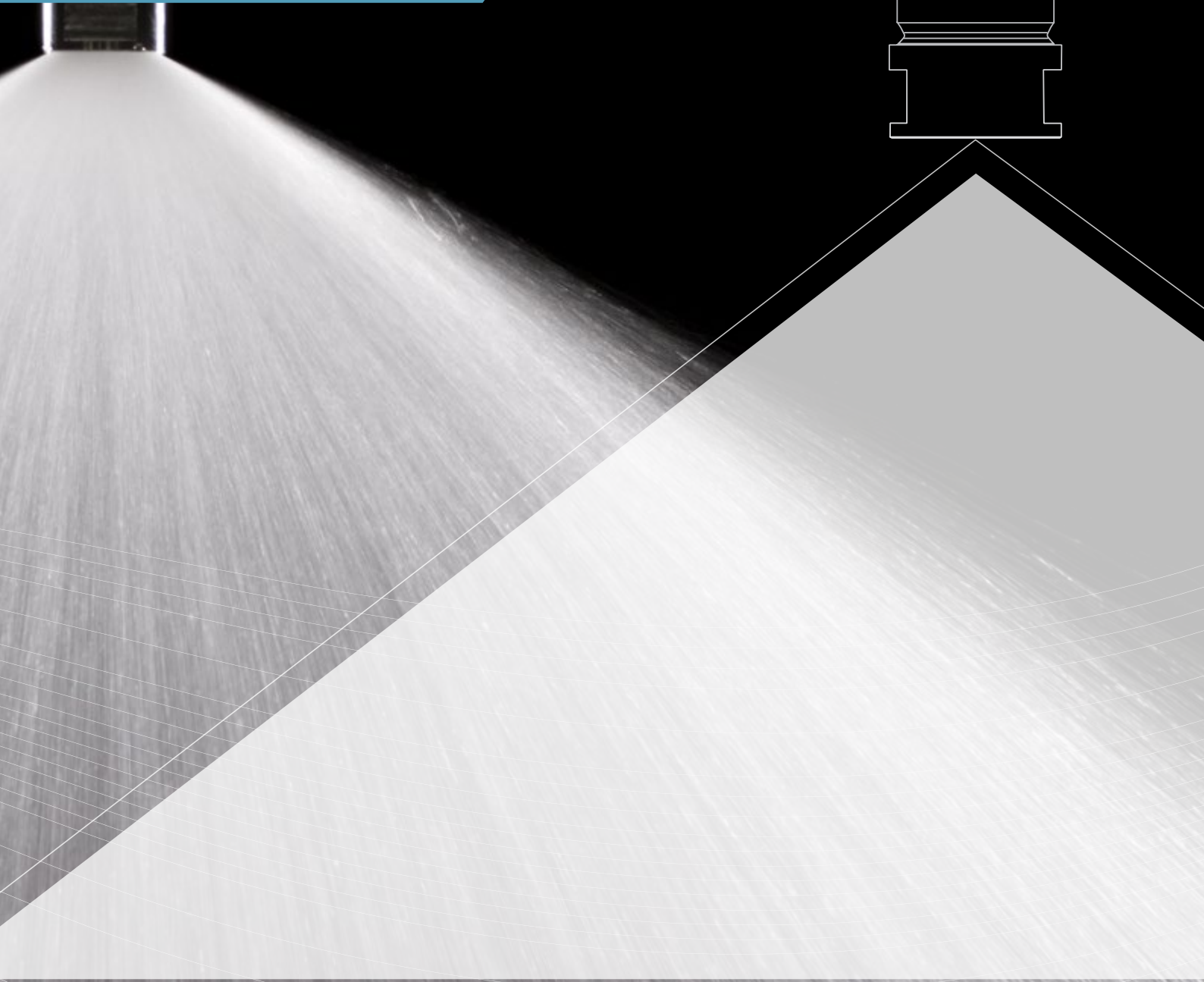
NEW



# AXIAL-FLOW FULL CONE NOZZLES

Series 4H7

GENERAL INDUSTRY



# ➤ Axial-flow full cone nozzles Series 4H7



## Features:

- Low weight
- Housingless design for screw-in
- Corrosion-resistant
- High resistance to clogging due to large free cross-sections
- Compact design

## Applications:

- Wet DeSO<sub>x</sub> in scrubbers
- Gas cooling/quenching
- Absorber technique



Series 4H7

## Technical data:



### Material

- Stainless steel 1.4462 (318LN)
- Other materials like 1.4404 (316L) or 1.4547 (SMO) upon request



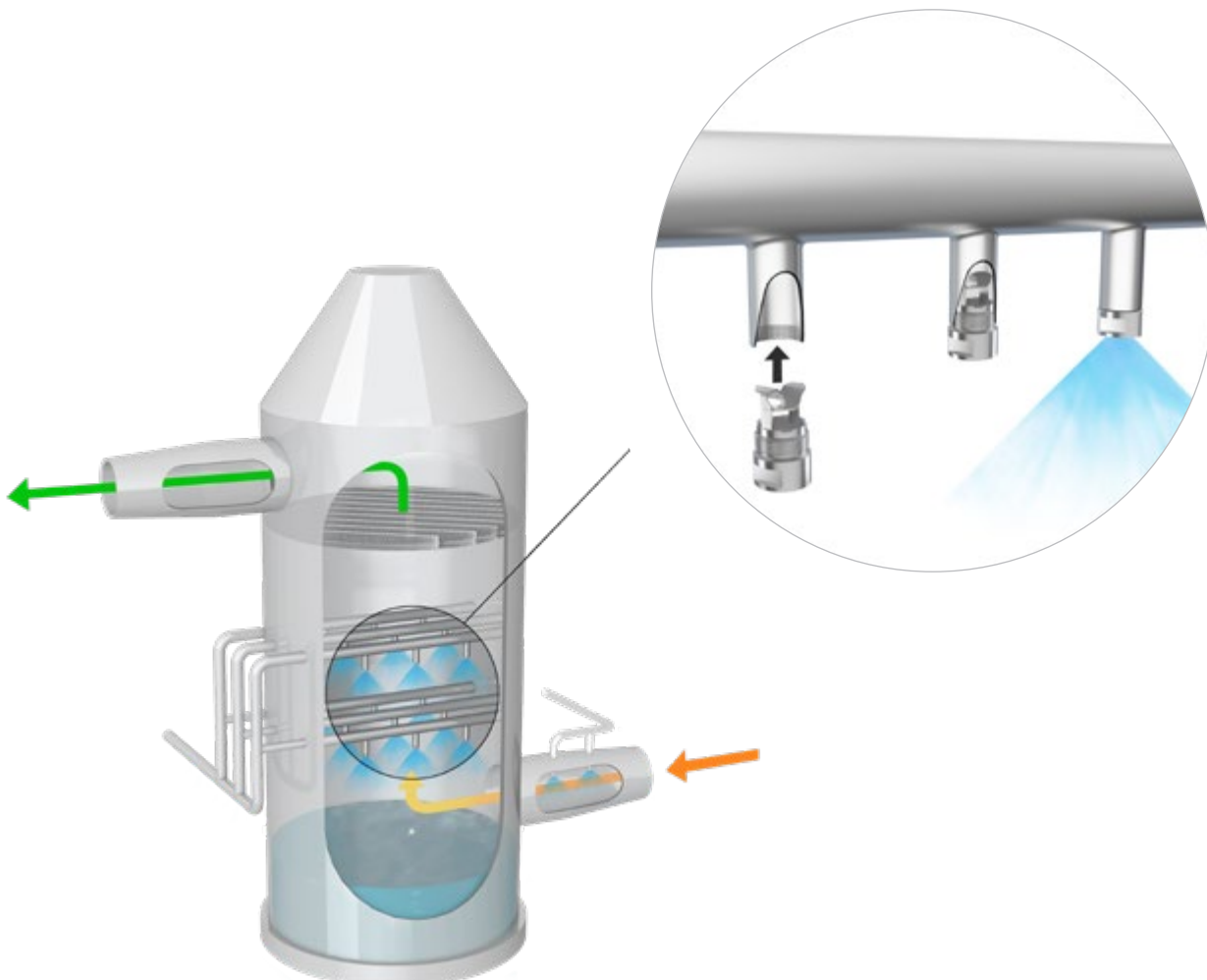
### Max. operating temperature

250 °C  
Higher temperatures are possible, depending on the material



### Recommended operating pressure

1–2 bar



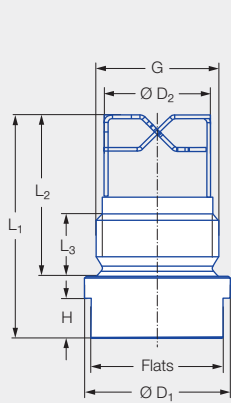


Figure 1

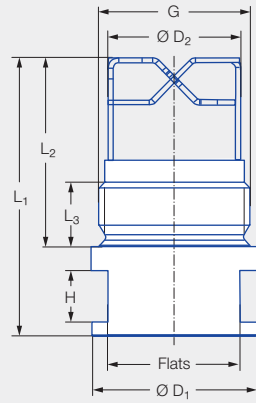
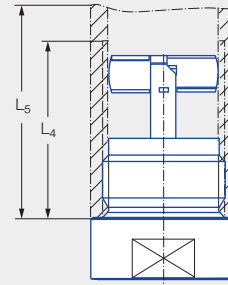


Figure 2



Installation example – recommended thread and connection pipe lengths

Type	Connection thread G BSPP male	Figure	Dimensions [mm]									Weight [g]
			H	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	Minimum thread connection length L <sub>4</sub>	Recommended connection pipe length L <sub>5</sub>	Ø D <sub>1</sub>	Ø D <sub>2</sub>	Flats	
4H7.208	1	1	11	61.0	44.0	17.0	60.0	80.0	39.6	30.0	36	170.0
4H7.328	1 1/4	2	14	76.0	52.0	17.0	60.0	80.0	45.0	38.0	36	270.0
4H7.368	1 1/4	2	14	78.0	53.0	17.0	60.0	80.0	45.0	38.0	36	300.0
4H7.408	1 1/2	2	15	77.0	53.0	17.0	60.0	80.0	54.5	43.0	46	400.0
4H7.448	1 1/2	2	15	77.0	53.0	17.0	60.0	80.0	54.5	43.0	46	380.0

Spray angle	Ordering no.		Connection thread G BSPP male	Bore diameter [mm]	Narrowest cross section Ø [mm]	V̇ [l/min]					Spray diameter D [mm]	
	Type	Mat. no.				p [bar] (p <sub>max</sub> = 5 bar)					at p = 2 bar	
		B2				0.3	0.5	1.0	2.0	5.0	H = 500 [mm]	H = 1.000 [mm]
120°	4H7.208	Stainless steel 1.4462 (318LN)	1	12.5	7.5	46.8	57.4	75.8	100.0	144.3	1.400	2.400
	4H7.328		1 1/4	18.0	10.0	93.6	114.9	151.6	200.0	288.5	1.400	2.400
	4H7.368		1 1/4	20.0	10.5	117.1	143.6	189.5	250.0	360.7	1.400	2.400
	4H7.408		1 1/2	21.0	13.0	147.5	180.9	238.7	315.0	454.5	1.400	2.400
	4H7.448		1 1/2	23.5	13.5	187.3	229.7	303.1	400.0	577.1	1.400	2.400

Ordering example: Type 4H7.208 + Material no. B2 = Ordering no. 4H7.208.B2

Conversion formula for this series:  $\dot{V}_2 = \dot{V}_1 \cdot \left(\frac{p_2}{p_1}\right)^{0.4}$  ( $\leq 5$  bar)

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**Lechler GmbH · Precision Nozzles · Nozzle Systems**  
**Ulmer Strasse 128 · 72555 Metzingen, Germany · Phone +49 7123 962-0 · info@lechler.de · www.lechler.com**

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