

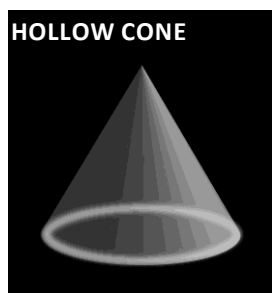


# MOLECULAR-SPRAY NOZZLE

This nozzle is designed for the smallest capacities (liters per hour) and for the ultrafine atomization. Depending on the capacity, the mean droplet size is 80-200  $\mu$ . Basically, the spray pattern is a hollow cone. That, however, changes rapidly and transforms, depending on operating conditions.

## STANDARD - SPRAY ANGLE

60° and 90°  
other angles on request.



## POSSIBLE APPLICATIONS

air humidification  
spraying on foold  
spraying on conveyor or belts  
spraying on sliding surfaces  
spraying on moving objects

## FIELD OF APPLICATION

turbine technology  
moistening of textiles  
dust binding  
oil burner

## AVAILABLE IN THE FOLLOWING MATERIALS

NOZZLE BODY :

**Stainless Steel**

1.4435 (X2 CrNiMo 18-14-3)

FILTER BODY :

**Stainless Steel**

1.4435 (X2 CrNiMo 18-14-3)

FILTER :

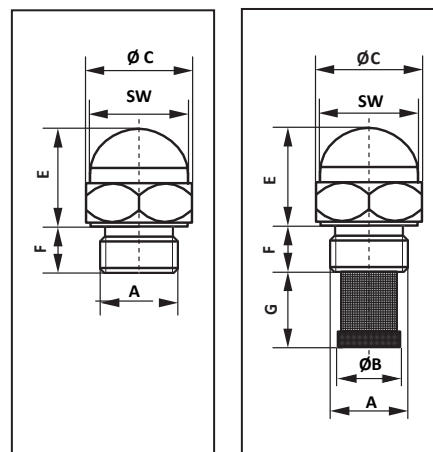
**Stainless Steel**

1.4401 (X2 CrNiMo 17-12-2)

other materials on request.

## DIMENSIONS

type	A	$\varnothing B$ mm	$\varnothing C$ mm	SW mm	E mm	F mm	G mm
OIW with filter	R 1/4"	10.2	16	17	15.5	8	12
OIW without filter	R 1/4"	-	16	17	15.5	8	-





# MOLECULAR-SPRAY NOZZLE

## CAPACITY CHART OF MOLECULAR SPRAY NOZZLE

capacity in l/h of water by following pressures

type	thread	1 bar	2 bar	3 bar	4 bar (Testpressure)	6 bar	8 bar	10 bar
OIW	R 1/4"				1.0	1.22	1.41	1.58
					1.5	1.85	2.2	2.4
					2.45	3.0	3.5	3.9
					3.0	3.7	4.2	4.7
				3.7	4.3	5.2	6.1	6.8
				4.4	5.1	6.2	7.2	8.1
				5.5	6.4	7.8	9.1	10.1
				6.4	7.4	9.1	10.5	11.7
				8.2	9.5	11.6	13.4	15.0
				9.5	11.0	13.5	15.6	17.4
				10.6	12.2	14.9	17.3	19.3
				12.0	13.8	16.9	19.5	21.8
				13.9	16.0	19.6	22.6	25.3
				15.6	18.0	22.0	25.5	28.5
				19.9	23.0	28.2	32.5	36.3
				24.2	28.0	34.3	39.6	44.2

other capacities on request.

## FOR ORDERING WE NEED FOLLOWING INFORMATION

### Field of application

medium to spray (viscosity)  
fitting position / spray distance nozzle – spray area  
temperature range  
frequency range

### Nozzle specification

type of material  
desired spray angle  
nozzle type  
connection thread  
desired capacity (l/min, l/h)  
operating pressure (bar)