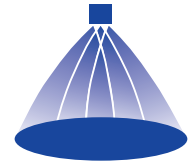


# Cluster head nozzles

## Series 502/503

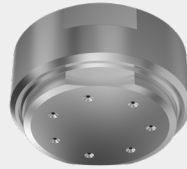


### Features:

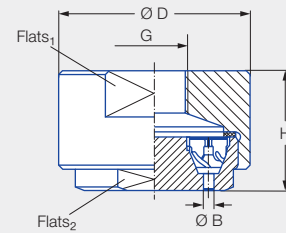
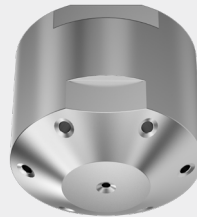
- Fine, uniform atomization
- Stable spray angle
- Space-saving installation
- Maintenance-friendly design
- High temperature and chemical resistance

### Applications:

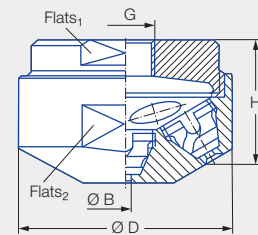
- Chlorine precipitation
- Absorption
- Dust suppression
- Degassing of liquids
- Desuperheating



Series 502/503



70° version




130° version

### 70° version

G	Dimensions [mm]				Weight [g] (brass)
	H	Ø D	Flats <sub>1</sub>	Flats <sub>2</sub>	
1/2 BSPP	25.0	50.0	46	38	250.0
3/4 BSPP	46.0	75.0	65	55	870.0

### 130° version


G	Dimensions [mm]				Weight [g] (brass)
	H	Ø D	Flats <sub>1</sub>	Flats <sub>2</sub>	
1/2 BSPP	28.0	40.0	27	36	150.0
3/4 BSPP	53.0	60.0	50	55	410.0

Spray angle	Ordering no.			BSPP	Bore diameter B [mm]	Narrowest free cross sections Ø [mm]	V̇ water [l/min]					Spray diameter D [mm] (at p = 2 bar)	
	Type	Mat. no.					p [bar]					 H = 500 [mm]    H = 1,000 [mm]	
		17 <sup>1</sup>	30				0.5	1.0	2.0	5.0	10.0		
70°	502.445		●	1/2	0.90	0.50	–	–	1.25	1.98	2.80	270	360
	502.985	●		3/4	3.30	2.00	14.00	19.80	28.00	44.27	62.61	610	1,000
	503.065	●		3/4	4.90	2.00	22.50	31.82	45.00	71.15	100.62	920	1,520
130°	502.448	●	●	1/2	0.90	0.50	–	–	1.25	1.98	2.80	310	370
	502.548	●	●	1/2	1.80	0.50	–	1.58	2.24	3.54	5.01	450	570
	502.748	●	●	3/4	1.90	1.90	3.55	5.02	7.10	11.23	15.88	1,110	1,400
	502.838	●	●	3/4	2.90	2.00	5.90	8.34	11.80	18.66	26.39	1,500	2,060
	502.908	●	●	3/4	4.00	2.00	9.00	12.73	18.00	28.46	40.25	1,770	2,650
	503.028	●	●	3/4	4.20	2.00	17.75	25.10	35.50	56.13	79.38	2,050	3,150
	503.118	●	●	3/4	6.50	2.00	30.00	42.43	60.00	94.87	134.16	2,300	3,550

<sup>1</sup> We reserve the right to supply material 316Ti or 316L under material no. 17.

Conversion formula for this series:  $\dot{V}_2 = \dot{V}_1 \cdot \sqrt{\frac{p_2}{p_1}}$

Ordering Type + Material no. = Ordering no.  
 example: 502.445 + 30 = 502.445.30

 Assembly accessories can be found in Chapter 9 "Accessories".

