




Cluster head nozzles Series 502/503



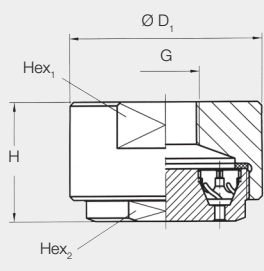
Fine full cone atomization with the aid of several hollow cones spraying into one another.

Applications:

Cooling of gaseous and solid material, desuperheating, chlorine precipitation, absorption as well as for improvement of chemical reaction by enlarging the contact area.




↯ 70°

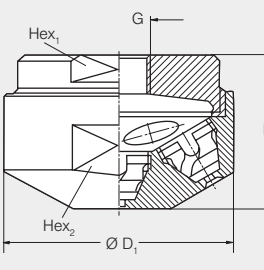


Dimensions [mm]

	1/2	3/4
Hex ₁	46	65
Hex ₂	38	55
H	25	46
D ₁	50	75
Weight (Brass)	250 g	870 g



↯ 130°



Dimensions [mm]

	1/2	3/4
Hex ₁	27	50
Hex ₂	36	55
H	28	53
D ₁	40	60
Weight (Brass)	150 g	410 g

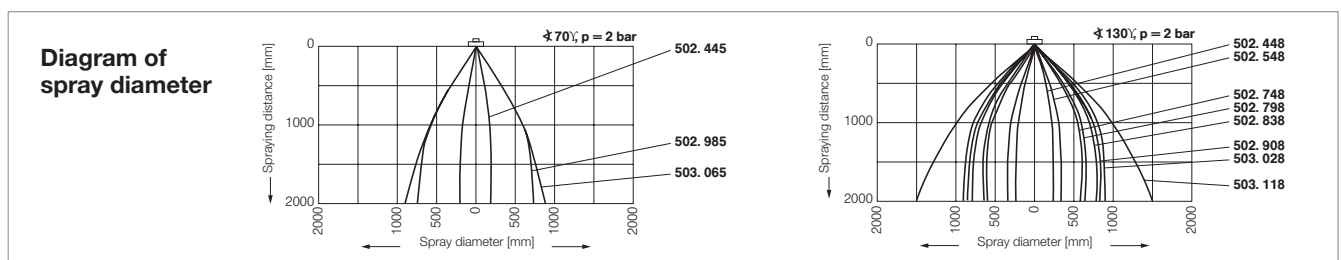
Full cone nozzles

Spray angle	Ordering no.			G	B Ø [mm]	E Ø [mm]	V̇ [l/min]						Spray diameter D at p = 2 bar	
	Type	Mat. no.					p [bar]						H = 1000 mm	H = 2000 mm
		17 ¹	30				0.5	1.0	2.0	US [gal/min] at 40 psi	5.0	10.0		
70°	502.445	-	○	1/2	0.90	0.50	-	-	1.25	0.39	1.98	2.80	400	400
	502.985	○	-	3/4	3.30	2.00	14.00	19.80	28.00	8.68	44.30	62.60	1,200	1,500
	503.065	○	-	3/4	4.90	2.00	22.10	31.80	45.00	13.96	71.10	100.60	1,200	1,800
130°	502.448	○	○	1/2	0.90	0.50	-	-	1.25	0.39	1.98	2.80	500	500
	502.548	○	○	1/2	1.80	0.50	-	1.58	2.24	0.69	3.54	5.01	700	700
	502.748	○	○	3/4	1.90	2.00	3.50	5.00	7.10	2.20	11.20	15.90	1,100	1,200
	502.838	○	○	3/4	2.90	2.00	4.60	8.30	11.80	3.66	18.70	26.40	1,400	1,600
	502.908	○	○	3/4	4.00	2.00	8.80	12.70	18.00	5.58	28.40	40.20	1,500	1,800
	503.028	○	○	3/4	4.20	2.00	17.70	25.10	35.50	11.01	56.10	79.40	1,600	1,800
	503.118	○	○	3/4	6.50	2.00	30.00	42.00	60.00	18.61	95.00	134.00	2,000	3,000

¹ We reserve the right to deliver 316Ti SS or 316L SS under the material no. 17.
B = bore diameter · E = narrowest free cross section

The folded page at the end of the catalogue will give you a survey on the various assembly possibilities. For complete assembly accessories, please refer to "Accessories".

Example Type + Material-no. = Ordering no.
for ordering: 502.445 + 30 = 502.445.30



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

