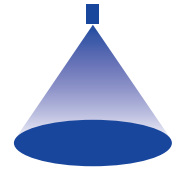


➤ Tangential-flow full cone nozzles stainless steel/brass version Series 422/423



Features:

- Tangentially arranged supply of liquid
- Without swirl inserts
- Non-clogging
- Stable spray angle
- Uniform liquid distribution

Applications:

- Surface spraying
- Cooling
- Cleaning and washing processes
- Foam control

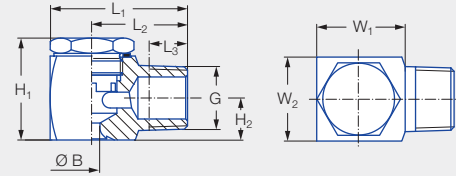
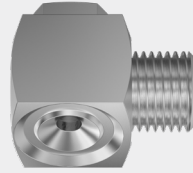


Figure 1

Series 422/423

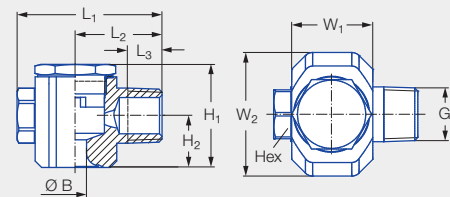
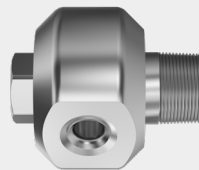



Figure 2

Code	Figure	G	Dimensions [mm]								Weight [g] (stainless steel 316L)
			H ₁	H ₂	L ₁	L ₂	L ₃	W ₁	W ₂	Hex	
CC	1	1/4 BSPT	21.0	8.0	28.0	20.0	9.7	15.6	16.0	–	44.0
CE	1	3/8 BSPT	26.7	11.0	36.0	25.0	10.1	23.2	22.0	–	101.0
CG	2	1/2 BSPT	40.0	20.0	56.0	33.5	13.2	32.0	48.0	19	370.0
CK	2	3/4 BSPT	57.0	23.5	65.5	38.5	14.5	40.0	63.0	27	830.0
CM	2	1 BSPT	66.0	27.3	85.0	48.5	16.8	55.0	78.0	36	1,581.0

Spray angle	Ordering no.							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.		Code						p [bar]							
		1Y	30	1/4 BSPT	3/8 BSPT	1/2 BSPT	3/4 BSPT			1 BSPT	0.5	1.0	2.0	3.0	5.0		
		Stainless steel 316L	Brass														
60°	422.644	●	●	CE				3.00	3.00	2.00	2.83	4.00	4.90	6.32	8.94	300	580
90°	422.406	●	●	CC				1.40	1.40	0.50	0.71	1.00	1.22	1.58	2.24	430	800
	422.486	●		CC				1.85	1.85	0.80	1.13	1.60	1.96	2.53	3.58	450	820
	422.566	●	●	CC				2.25	2.25	1.25	1.77	2.50	3.06	3.95	5.59	470	840
	422.606	●	●	CE				2.55	2.55	1.57	2.23	3.15	3.86	4.98	7.04	480	860
	422.646	●	●	CE				2.90	2.90	2.00	2.83	4.00	4.90	6.32	8.94	500	880
	422.726		●	CE				3.70	3.70	3.15	4.45	6.30	7.72	9.96	14.09	520	910
	422.766	●		CE				4.15	4.15	4.00	5.66	8.00	9.80	12.65	17.89	520	910
	422.806		●	CE				4.65	4.65	5.00	7.07	10.00	12.25	15.81	22.36	520	910
	422.846	●	●	CE				5.10	5.10	6.25	8.84	12.50	15.31	19.76	27.95	520	910
	422.886	●	●	CE				5.85	5.85	8.00	11.31	16.00	19.60	25.30	35.78	520	910
422.966	●			CG				8.00	8.00	12.50	17.68	25.00	30.62	39.53	55.90	520	910





Spray angle	Ordering no.								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.		Code							p [bar]						H = 250 [mm]	H = 500 [mm]
		1Y	30	1/4 BSPT	3/8 BSPT	1/2 BSPT	3/4 BSPT	1 BSPT			0.5	1.0	2.0	3.0	5.0	10.0		
		Stainless steel 316L	Brass															
60°	422.644	●	●	CE					3.00	3.00	2.00	2.83	4.00	4.90	6.32	8.94	300	580
90°	422.406	●	●	CC					1.40	1.40	0.50	0.71	1.00	1.22	1.58	2.24	430	800
	422.486	●		CC					1.85	1.85	0.80	1.13	1.60	1.96	2.53	3.58	450	820
	422.566	●	●	CC					2.25	2.25	1.25	1.77	2.50	3.06	3.95	5.59	470	840
	422.606	●	●		CE				2.55	2.55	1.57	2.23	3.15	3.86	4.98	7.04	480	860
	422.646	●	●		CE				2.90	2.90	2.00	2.83	4.00	4.90	6.32	8.94	500	880
	422.726		●		CE				3.70	3.70	3.15	4.45	6.30	7.72	9.96	14.09	520	910
	422.766	●			CE				4.15	4.15	4.00	5.66	8.00	9.80	12.65	17.89	520	910
	422.806		●		CE				4.65	4.65	5.00	7.07	10.00	12.25	15.81	22.36	520	910
	422.846	●	●		CE				5.10	5.10	6.25	8.84	12.50	15.31	19.76	27.95	520	910
	422.886	●	●		CE				5.85	5.85	8.00	11.31	16.00	19.60	25.30	35.78	520	910
422.966	●				CG			8.00	8.00	12.50	17.68	25.00	30.62	39.53	55.90	520	910	
120°	422.488		●	CC					1.90	1.90	0.80	1.13	1.60	1.96	2.53	3.58	670	1,200
	422.568	●	●	CC					2.45	2.40	1.25	1.77	2.50	3.06	3.95	5.59	700	1,230
	422.608		●		CE				2.70	2.70	1.57	2.23	3.15	3.86	4.98	7.04	710	1,250
	422.728	●	●		CE				4.00	3.90	3.15	4.45	6.30	7.72	9.96	14.09	770	1,360
	422.808	●			CE				4.90	4.90	5.00	7.07	10.00	12.25	15.81	22.36	830	1,490
	422.848	●	●		CE				5.30	5.30	6.25	8.84	12.50	15.31	19.76	27.95	860	1,550
	422.888	●	●		CE				6.60	6.00	8.00	11.31	16.00	19.60	25.30	35.78	880	1,570
	422.928	●				CG			7.30	7.30	10.00	14.14	20.00	24.49	31.62	44.72	890	1,580
	422.968	●	●			CG			8.00	8.00	12.50	17.68	25.00	30.62	39.53	55.90	890	1,590
	423.008	●				CG			8.70	8.70	15.75	22.27	31.50	38.58	49.81	70.44	890	1,590
423.128	●					CK		12.70	12.30	31.50	44.55	63.00	77.16	99.61	140.87	890	1,590	
423.208	●						CM	17.00	16.00	50.00	70.71	100.00	122.47	158.11	223.61	890	1,590	

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

Ordering Type + Material no. + Code = Ordering no.
 example: 422.488 + 30 + CC = 422.488.30.CC



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