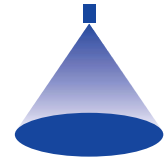


➤ Axial-flow full cone nozzles Series 460/461



Features:

- Extremely uniform liquid distribution

Applications:

- Cleaning and washing processes
- Cooling
- Surface spraying
- Chemical process engineering



Series 460/461

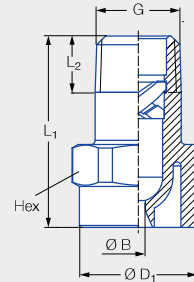


Figure 1

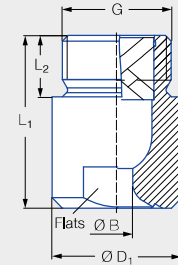


Figure 2

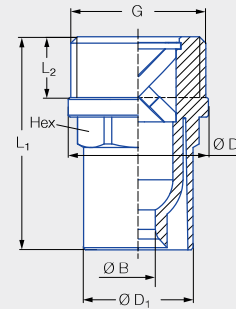


Figure 3

Code	Figure	G	Dimensions [mm]					Weight [g]
			L ₁	L ₂	Ø D ₁	Ø D ₂	Hex/Flats	
CA	1	1/8 BSPT	22.0	6.5	13.0	–	14	2.7
CC	1	1/4 BSPT	22.0	9.7	13.0	–	14	3.3
CE	1	3/8 BSPT	30.0	10.0	17.0	–	17	6.4
CG	1	1/2 BSPT	43.5	13.2	22.0	–	22	14.5
CK	2	3/4 BSPT	42.0	15.0	31.5	–	27	19.9
AK	2	3/4 BSPP	42.0	15.0	31.5	–	27	24.3
AM	3	1 BSPP	52.5	15.0	27.0	34.5	27	34.4

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]	
			5E	1/8 BSPT	1/4 BSPT	3/8 BSPT	1/2 BSPT	3/4 BSPT			3/4 BSPP	1 BSPP	0.5	1.0	2.0	3.0	5.0		
			PVDF															CA	CC
60°	460.524	●	CA						1.60	1.60	1.15	1.52	2.00	2.35	2.89	3.30	3.81	210	380
	460.644	●	CC						2.40	1.90	2.30	3.03	4.00	4.70	5.77	6.60	7.61	240	420
	460.724	●	CC						2.80	2.10	3.15	4.45	6.30	7.72	8.91	9.96	14.09	260	450
	460.964	●						AK	5.80	4.90	14.36	18.95	25.00	29.40	36.07	41.26	47.59	310	560





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]			
			5E	1/8 BSPT	1/4 BSPT	3/8 BSPT	1/2 BSPT	3/4 BSPT			3/4 BSPP	1 BSPP	0.5	1.0	2.0	3.0			5.0	7.0	10.0
			PVDF																		
90°	460.326	●	CA						0.80	0.55	0.23	0.30	0.40	0.47	0.58	0.66	0.76	430	750		
	460.406	●	CA						1.20	0.85	0.57	0.76	1.00	1.18	1.44	1.65	1.90	440	780		
	460.486	●	CA						1.45	1.20	0.92	1.21	1.60	1.88	2.31	2.64	3.05	450	800		
	460.526	●	CA						1.65	1.30	1.15	1.52	2.00	2.35	2.89	3.30	3.81	450	820		
	460.606	●	CA		CE				2.05	1.45	1.81	2.39	3.15	3.70	4.54	5.20	6.00	470	850		
	460.646	●		CC					2.30	1.80	2.30	3.03	4.00	4.70	5.77	6.60	7.61	480	870		
	460.726	●			CE				2.95	2.00	3.62	4.77	6.30	7.41	9.09	10.40	11.99	500	900		
	460.746	●			CE				3.30	1.90	4.08	5.38	7.10	8.35	10.24	11.72	13.52	510	910		
	460.766	●			CE				3.30	2.40	4.59	6.06	8.00	9.41	11.54	13.20	15.23	510	910		
	460.806	●			CE				3.70	2.70	5.74	7.58	10.00	11.76	14.43	16.51	19.04	520	920		
	460.846	●			CE				4.05	3.20	7.18	9.47	12.50	14.70	18.03	20.63	23.80	520	930		
	460.886	●			CE	CG			4.70	3.10	9.19	12.13	16.00	18.82	23.08	26.41	30.46	520	930		
	460.926	●				CG			5.10	2.80	11.49	15.16	20.00	23.52	28.85	33.01	38.07	520	940		
	460.966	●				CG			5.80	3.80	14.36	18.95	25.00	29.40	36.07	41.26	47.59	520	940		
	461.006	●				CG			6.40	3.80	18.09	23.87	31.50	37.05	45.45	51.99	59.97	520	940		
461.046	●					CK		7.20	5.30	22.97	30.31	40.00	47.04	57.71	66.02	76.15	520	950			
461.086	●						AM	8.40	5.00	25.00	35.36	50.00	61.24	70.71	79.06	111.80	530	950			
120°	460.368	●	CA						0.95	0.65	0.32	0.45	0.63	0.77	0.89	1.00	1.41	650	1,030		
	460.408	●	CA						1.20	0.85	0.57	0.76	1.00	1.18	1.44	1.65	1.90	680	1,100		
	460.488	●	CA						1.50	1.00	0.92	1.21	1.60	1.88	2.31	2.64	3.05	700	1,160		
	460.528	●	CA						1.65	1.20	1.15	1.52	2.00	2.35	2.89	3.30	3.81	710	1,200		
	460.608	●	CA						2.10	1.40	1.81	2.39	3.15	3.70	4.54	5.20	6.00	730	1,270		
	460.648	●		CC					2.45	1.60	2.30	3.03	4.00	4.70	5.77	6.60	7.61	750	1,310		
	460.728	●			CE				3.10	1.90	3.62	4.77	6.30	7.41	9.09	10.40	11.99	780	1,380		
	460.748	●			CE				3.30	1.90	4.08	5.38	7.10	8.35	10.24	11.72	13.52	790	1,400		
	460.768	●			CE				3.50	1.90	4.59	6.06	8.00	9.41	11.54	13.20	15.23	790	1,410		
	460.808	●			CE				3.80	2.40	5.74	7.58	10.00	11.76	14.43	16.51	19.04	810	1,430		
	460.848	●			CE				4.20	2.70	7.18	9.47	12.50	14.70	18.03	20.63	23.80	820	1,450		
	460.888	●				CG			4.60	3.10	9.19	12.13	16.00	18.82	23.08	26.41	30.46	830	1,470		
	460.968	●				CG			5.90	4.10	14.36	18.95	25.00	29.40	36.07	41.26	47.59	850	1,500		
	461.048	● ¹					CK		7.60	4.90	22.97	30.31	40.00	47.04	57.71	66.02	76.15	870	1,530		

¹ Material PP (mat. no. 53).

Conversion formula for this series: $\dot{V}_2 = \dot{V}_1 \cdot \left(\frac{p_2}{p_1}\right)^{0.4}$
 (≤ 10 bar)

Ordering Type + Material no. + Code = Ordering no.
 example: 460.326 + 5E + CA = 460.326.5E.CA



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

