



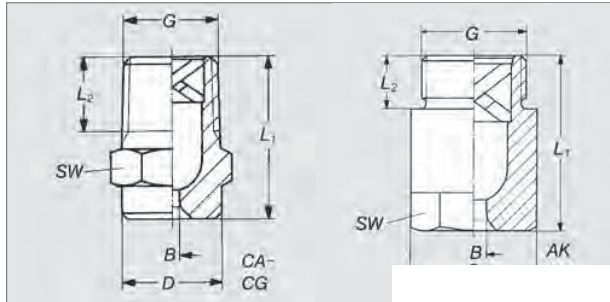
# Axial-flow full cone nozzles

## Series 460 / 461

**Very uniform spray pattern.**  
**Large free cross-sections,**  
**due to optimized**  
**x-style swirl insert.**

Applications:

Cleaning and washing process, cooling of gaseous fluids and solids, surface spraying, spraying onto mats in air washers, improving of chemical reactions. Large free cross-sections, due to optimized x-style swirl insert.



Code	G	Dimensions [mm]				Weight Brass
		L <sub>1</sub>	L <sub>2</sub>	D	Hex	
<b>CA</b>	1/8" BSPT	18,0	6,5	10,0	11	15 g
<b>CC</b>	1/4" BSPT	22,0	10,0	13,0	14	17 g
<b>CE</b>	3/8" BSPT	24,5	10,0	16,0	17	30 g
CE	1/8" BSPT	30,0	10,0	16,0	17	50 g
<b>CG</b>	1/2" BSPT	32,5	13,0	21,0	22	67 g
CG	1/2" BSPT	43,5	13,0	21,0	22	85 g
<b>AK</b>	3/4" BSPP	42,0	15,0	32,0	27	170 g
AK	3/4" BSPP	50,0	15,0	32,0	27	200 g
<b>AM</b>	1" BSPP	56,0	17,0	40,0	36	360 g

Subject to technical modifications.

Spray angle	Ordering no.			B Ø [mm]	E Ø [mm]	$\dot{V}$ [l/min]														
	Type	Material-no.	Code			p [bar]														
		17 1.4571/316SS	30 Brass			5E PVDF	1/8" BSPT	1/4" BSPT	3/8" BSPT	1/2" BSPT	3/4" BSPP	1" BSPP	0,5	1,0	2,0		[US gal./min] at 40 psi	3,0	5,0	10,0
45°						1,20	0,85	0,57	0,76	1,00	1,18	1,44	1,90	160	400					
						1,50	1,35	1,15	1,52	2,00	2,35	2,89	3,81	160	400					
						1,90	1,80	1,81	2,39	3,15	3,70	4,54	6,00	160	400					
						2,15	2,00	2,30	3,03	4,00	4,70	5,77	7,61	160	400					
						2,40	2,00	2,87	3,79	5,00	5,88	7,21	9,52	160	400					
						2,55	2,20	3,22	4,24	5,60	6,59	8,08	10,66	160	400					
						2,70	2,35	3,62	4,77	6,30	7,41	9,09	11,99	160	400					
						3,20	3,20	5,17	6,82	9,00	10,58	12,98	17,12	160	400					
					3,80	3,70	7,18	9,47	12,50	14,70	18,03	23,80	160	400						
60°	<b>460.404</b>	○	○	-	<b>CA</b>	-	-	-	-	-	1,20	0,85	0,57	0,76	1,00	1,18	1,44	1,90	220	560
	<b>460.444</b>	○	-	-	<b>CA</b>	-	-	-	-	-	1,30	1,05	0,72	0,95	1,25	1,47	1,80	2,38	220	560
	<b>460.484</b>	○	○	-	<b>CA</b>	-	-	-	-	-	1,45	1,15	0,92	1,21	1,60	1,88	2,31	3,05	220	560
	<b>460.524</b>	○	○	-	<b>CA</b>	-	-	-	-	-	1,60	1,20	1,15	1,52	2,00	2,35	2,89	3,81	220	560
	<b>460.604</b>	○	○	-	<b>CA</b>	-	<b>CE</b>	-	-	-	2,05	1,40	1,81	2,39	3,15	3,70	4,54	6,00	220	560
	<b>460.644</b>	○	○	○	-	<b>CC</b>	<b>CE*</b>	-	-	-	2,40	1,90	2,30	3,03	4,00	4,70	5,77	7,61	220	560
	<b>460.684</b>	○	○	-	-	<b>CC</b>	<b>CE</b>	-	-	-	2,60	2,00	2,87	3,79	5,00	5,88	7,21	9,52	220	560
	<b>460.724</b>	○	○	-	-	<b>CC</b>	<b>CE</b>	-	-	-	2,90	2,00	3,62	4,77	6,30	7,41	9,09	11,99	220	560
	<b>460.764</b>	○	○	-	-	-	<b>CE</b>	-	-	-	3,25	2,85	4,59	6,06	8,00	9,41	11,54	15,22	220	560
	<b>460.804</b>	○	○	-	-	-	<b>CE</b>	-	-	-	3,60	2,95	5,74	7,58	10,00	11,76	14,43	19,04	220	560
	<b>460.844</b>	○	○	-	-	-	-	<b>CG</b>	-	-	4,00	3,30	7,18	9,47	12,50	14,70	18,03	23,80	220	560
	<b>460.884</b>	○	○	-	-	-	-	<b>CG</b>	-	-	4,50	3,70	9,19	12,13	16,00	18,82	23,08	30,46	220	560
	<b>460.924</b>	○	○	-	-	-	-	-	<b>AK</b>	-	5,20	4,50	11,49	15,16	20,00	23,52	28,85	38,07	220	560
	<b>460.964</b>	○	○	○	-	-	-	-	<b>AK</b>	-	5,80	4,90	14,36	18,95	25,00	29,40	36,07	47,59	220	560
	<b>461.044</b>	○	○	-	-	-	-	-	-	<b>AM</b>	7,20	5,40	22,97	30,31	40,00	47,04	57,71	76,15	220	560
	<b>461.084</b>	○	○	-	-	-	-	-	-	<b>AM</b>	8,60	6,50	28,72	37,89	50,00	58,80	72,14	95,18	220	560