



Full cone nozzles

Axial-flow

Series 460 / 461



Spray angle	Ordering no.										Orifice diam. (in.)	Free passage (in.)	Flow Rate (Gallons Per Minute)						Spray Diam. D (in.) @ 30 psi			
	Type	Material no.			Connection				10 psi	20 psi			liters per minute 2 bar	30 psi	40 psi	60 psi	80 psi	100 psi	150 psi	H=8"	H=20"	
		316 SS 17 ¹⁾	Brass 30	PVDF 5E	Male NPT 1/8" 1/4" 3/8" 1/2" 3/4" 1"																	
90°	460.326	-	-	○	BA	-	-	-	-	.032	.022	.07	.09	0.4	.11	.12	.14	.16	.17	.20	15	34
	460.406	○	○	○	BA	-	-	-	-	.047	.033	.17	.23	1.0	.27	.30	.35	.40	.43	.51	15	34
	460.446	-	○	○	BA	-	-	-	-	.051	.039	.22	.28	1.3	.33	.38	.44	.50	.54	.64	15	34
	460.486	○	○	○	BA	-	-	-	-	.057	.047	.28	.36	1.6	.43	.48	.57	.63	.69	.82	15	34
	460.506	○	○	○	BA	-	-	-	-	.057	.047	.31	.41	1.8	.48	.54	.64	.71	.78	.92	15	34
	460.526	○	○	○	BA	-	-	-	-	.065	.051	.35	.46	2.0	.54	.60	.71	.79	.87	1.0	15	34
	460.566	○	○	○	BA	-	-	-	-	.073	.051	.43	.57	2.5	.67	.75	.88	.99	1.1	1.3	15	34
	460.606	○	○	○	BA	-	BE	-	-	.081	.057	.54	.72	3.2	.84	.95	1.1	1.2	1.4	1.6	15	34
	460.646	○	○	○	-	BC	BE	-	-	.091	.071	.69	.91	4.0	1.1	1.2	1.4	1.6	1.7	2.0	15	38
	460.686	○	○	○	-	BC	BE	-	-	.102	.071	.86	1.1	5.0	1.3	1.5	1.8	2.0	2.2	2.5	15	38
	460.726	○	○	○*	-	BC	BE	-	-	.116	.079	1.1	1.4	6.3	1.7	1.9	2.2	2.5	2.7	3.2	15	38
	460.746	-	-	○	-	-	BE	-	-	.130	.075	1.2	1.6	7.1	1.9	2.1	2.5	2.8	3.1	3.6	15	38
	460.766	○	○	○	-	-	BE	-	-	.130	.095	1.4	1.8	8.0	2.1	2.4	2.8	3.2	3.5	4.1	15	38
	460.806	○	○	○	-	-	BE	-	-	.146	.106	1.7	2.3	10.0	2.7	3.0	3.5	4.0	4.3	5.1	15	38
	460.846	○	○	○	-	-	BE	-	-	.160	.126	2.2	2.8	12.5	3.3	3.8	4.4	5.0	5.4	6.4	15	38
	460.886	○**	○**	○	-	-	BE	BG	-	.185	.122	2.8	3.6	16.0	4.3	4.8	5.7	6.3	6.9	8.2	15	38
	460.926	○	○	○	-	-	-	BG	-	.205	.150	3.5	4.6	20	5.4	6.0	7.1	7.9	8.7	10.2	15	38
	460.966	○	○	○	-	-	-	BG	BK	.229	.150	4.3	5.7	25	6.7	7.5	8.8	9.9	10.8	12.7	15	38
	461.006	○	○	○**	-	-	-	BG	BK	.252	.150	5.4	7.2	32	8.4	9.5	11.1	12.5	13.7	16.1	15	38
	461.046	○	○	○	-	-	-	-	BK	.284	.209	6.9	9.1	40	10.7	12.0	14.1	15.9	17.3	20	15	38
461.086	○***	○**	○**	-	-	-	-	BK	BM	.323	.209	8.6	11.4	50	13.4	15.0	17.7	19.8	22	25	15	38
461.126	○	○	○	-	-	-	-	BM	.366	.256	10.9	14.3	63	16.9	18.9	22	25	27	32	15	38	
461.146	○	○	○	-	-	-	-	BM	.390	.264	12.3	16.2	71	19.0	21	25	28	31	36	15	38	
120°	460.368	○	○	-	BA	-	-	-	-	.037	.028	.11	.14	0.6	.17	.19	.22	.25	.27	.32	27	48
	460.408	○	○	○	BA	-	-	-	-	.047	.033	.17	.23	1.0	.27	.30	.35	.40	.43	.51	27	48
	460.448	○	○	○	BA	-	-	-	-	.051	.035	.22	.28	1.3	.33	.38	.44	.50	.54	.64	27	48
	460.488	○	○	○	BA	-	-	-	-	.059	.039	.28	.36	1.6	.43	.48	.57	.63	.69	.82	27	48
	460.508	○	○	○	BA	-	-	-	-	.057	.043	.31	.41	1.8	.48	.54	.64	.71	.78	.92	27	48
	460.528	○	○	○	BA	-	-	-	-	.065	.047	.35	.46	2.0	.54	.60	.71	.79	.87	1.0	27	48
	460.568	○	○	○	BA	-	-	-	-	.075	.053	.43	.57	2.5	.67	.75	.88	.99	1.1	1.3	27	48
	460.608	○	○*	○*	BA	BC	-	-	-	.083	.055	.54	.72	3.2	.84	.95	1.1	1.2	1.4	1.6	27	48
	460.648	○	○	○	-	BC	BE	-	-	.097	.063	.69	.91	4.0	1.1	1.2	1.4	1.6	1.7	2.0	27	52
	460.688	○	○	○	BA	BC	BE	-	-	.108	.071	.86	1.1	5.0	1.3	1.5	1.8	2.0	2.2	2.5	27	52
	460.728	○	○	○*	-	BC	BE	-	-	.122	.075	1.1	1.4	6.3	1.7	1.9	2.2	2.5	2.7	3.2	27	52
	460.748	-	-	○	-	-	BE	-	-	.130	.075	1.2	1.6	7.1	1.9	2.1	2.5	2.8	3.1	3.6	27	52
	460.768	○	○	○	-	-	BE	-	-	.138	.075	1.4	1.8	8.0	2.1	2.4	2.8	3.2	3.5	4.1	27	52
	460.778	○	○	○	-	BC	-	-	-	.137	.075	.97	1.3	5.6	1.5	1.7	2.0	2.2	2.4	2.9	27	52
	460.808	○	○	○	-	-	BE	-	-	.150	.095	1.7	2.3	10.0	2.7	3.0	3.5	4.0	4.3	5.1	27	52
	460.848	○	○	○	-	-	BE	-	-	.165	.106	2.2	2.8	12.5	3.3	3.8	4.4	5.0	5.4	6.4	27	52
	460.868	○	○	○	-	-	BE	-	-	.173	.106	2.4	3.2	14.0	3.7	4.2	5.0	5.6	6.1	7.1	27	52
	460.888	○**	○	○	-	-	BE	BG	-	.181	.122	2.8	3.6	16.0	4.3	4.8	5.7	6.3	6.9	8.2	27	52
	460.928	○	○	○	-	-	-	BG	-	.209	.130	3.5	4.6	20	5.4	6.0	7.1	7.9	8.7	10.2	27	52
	460.968	○	○	○**	-	-	-	BG	BK	.232	.162	4.3	5.7	25	6.7	7.5	8.8	9.9	10.8	12.7	27	52
461.008	○	○	○	-	-	-	BG	-	.252	.185	5.4	7.2	32	8.4	9.5	11.1	12.4	13.6	16.0	27	52	
461.048	○	○	○	-	-	-	-	BK	.299	.193	6.9	9.1	40	10.7	12.0	14.1	15.9	17.3	20	27	52	
461.128	○	○	○	-	-	-	-	BM	.378	.260	10.9	14.3	63	16.9	18.9	22	25	27	32	27	52	
461.148	○	○	○	-	-	-	-	BM	.394	.260	12.3	16.2	71	21	19.0	25	28	31	36	27	52	

- ⊗ Material PP (Material no. 53)
- * Only available in connection BE
- ** Only available in connection BG
- *** Only available in connection BM
- + BC only available in 316 SS (Material no. 17)
- ** Only available in connection BK

Different metallurgies may be available upon request.

Example Type + Material no. + Conn. = Ordering no.
for ordering: 460.728 + 17 + BE = 460.728.17.BE

1) We reserve the right to deliver material 316 SS or 316L SS, if we show the material code 17.

A listing of alternatives for various assembly possibilities is shown in the Accessories section beginning on page 129.

