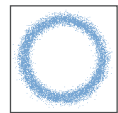


STANDARD ANGLE SPRAY NOZZLES

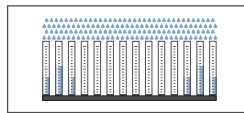
PE/PF hollow cone nozzles generate a ring-shaped spray pattern with finely atomized droplets and work on the tangential flow principle. Inside these nozzles there is an axial groove that injects the liquid tangentially into the vortex chamber where the strong centrifugal force produces a high rotational velocity and generates a finely atomized liquid flow. As these nozzles have a large inside free passage and no swirl insert, they offer the maximum resistance to clogging. PE/PF nozzles are widely used in many production processes and their variety of spray angles and capacities make them suitable for all kinds of working environments.

Thread specification

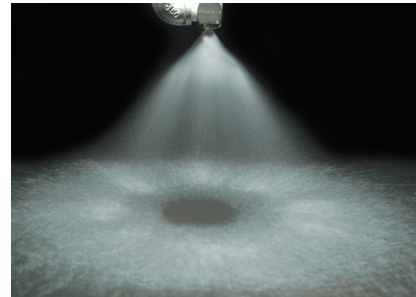
Female thread (PE series): BSPT, NPT
Male thread (PF series): BSP, NPT



Spray section



Concave distribution



STANDARD ANGLE SPRAY NOZZLES

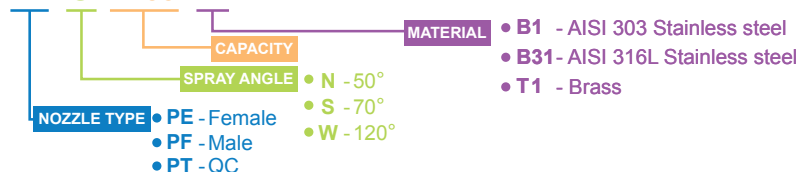
50°	RF	PEN	PFN	PTN	Code	DE	DU	Capacity at different pressure values								Dimensions			
	RG	Female	Male	QC				0.5	0.7	1.0	2.0	3.0	5.0	7.0	10	H	L	L1	
	inch					mm	mm	(l/min)	(l/min)	(l/min)	(l/min)	(l/min)	(l/min)	(l/min)	(l/min)	(bar)	mm	mm	mm
	3/8"		•	•	2180	5.9	7.9	7.35	8.69	10.4	14.7	18.0	23.2	27.5	32.9		24	34	35
			•	•	2220	7.5	7.9	8.98	10.6	12.7	18.0	22.0	28.4	33.6	40.2				
			•	•	2390	8.7	9.5	15.9	18.8	22.5	31.8	39.0	50.3	59.6	71.2				

70°	RF/RG	PES	PFS	PTS	Code	DE	DU	0.5	0.7	1.0	2.0	3.0	5.0	7.0	10	H	L	L1					
	inch																						
1/8"		•	•	•	0390	0.79	1.2	0.16	0.19	0.23	0.32	0.39	0.50	0.60	0.71	19	24	26					
					0780	1.6	1.6	0.32	0.38	0.45	0.64	0.78	1.01	1.19	1.42								
					1160	2.0	2.0	0.65	0.77	0.92	1.31	1.60	2.07	2.44	2.92								
					1230	2.4	2.4	0.94	1.11	1.33	1.88	2.30	2.97	3.51	4.20								
					1390	3.2	3.2	1.59	1.88	2.25	3.18	3.90	5.03	5.96	7.12								
					1630	4.0	4.0	2.57	3.04	3.64	5.14	6.30	8.13	9.62	11.5								
	•	•	•	•	1780	4.4	4.4	3.18	3.77	4.50	6.37	7.80	10.1	11.9	14.2								
					1/4"		•	•	•	0781	1.6	1.6	0.32	0.38	0.45	0.64	0.78	1.01	1.19	1.42	23	32	32
										1161	2.0	2.0	0.65	0.77	0.92	1.31	1.60	2.07	2.44	2.92			
										1231	2.4	2.4	0.94	1.11	1.33	1.88	2.30	2.97	3.51	4.20			
										1391	3.6	3.6	1.59	1.88	2.25	3.18	3.90	5.03	5.96	7.12			
										1631	4.0	4.0	2.57	3.04	3.64	5.14	6.30	8.13	9.62	11.5			
1781	4.8	4.4	3.18	3.77						4.50	6.37	7.80	10.1	11.9	14.2								
•	•	•	•	2117		5.9	5.2	4.78	5.65	6.75	9.55	11.7	15.1	17.9	21.4								
				3/8"			•	•	•	1392	3.6	3.2	1.59	1.88	2.25	3.18	3.90	5.03	5.96	7.12	24	34	35
										1632	4.4	4.0	2.57	3.04	3.64	5.14	6.30	8.13	9.62	11.5			
										1782	5.2	4.4	3.18	3.77	4.50	6.37	7.80	10.1	11.9	14.2			
										2118	5.9	5.6	4.78	5.65	6.75	9.55	11.7	15.1	17.9	21.4			
										2157	7.1	6.4	6.41	7.58	9.06	12.8	15.7	20.3	24.0	28.7			
2196	7.5	7.5	8.00		9.47					11.3	16.0	19.6	25.3	29.9	35.8								
•	•	•	•		2230	8.3	7.9	9.39	11.1	13.3	18.8	23.0	29.7	35.1	42.0								
					1/2"		•	•	•	2197	9.5	6.4	8.00	9.47	11.3	16.0	19.6	25.3	29.9	35.8	31	50	50
										2231	9.5	7.5	9.39	11.1	13.3	18.8	23.0	29.7	35.1	42.0			
										2310	9.5	9.1	12.7	15.0	17.9	25.3	31.0	40.0	47.4	56.6			
										2391	9.5	11.1	15.9	18.8	22.5	31.8	39.0	50.3	59.6	71.2			
										2470	9.5	13.1	19.2	22.7	27.1	38.4	47.0	60.7	71.8	85.8			
2940	12.7	18.3	38.4	45.4						54.3	76.8	94.0	121	144	172								
3/4"		•	•	•		2311	12.7	7.9	12.7	15.0	17.9	25.3	31.0	40.0	47.4	56.6	39	55	58				
						2392	12.7	9.5	15.9	18.8	22.5	31.8	39.0	50.3	59.6	71.2							
						2471	12.7	11.1	19.2	22.7	27.1	38.4	47.0	60.7	71.8	85.8							
						2550	12.7	12.7	22.5	26.6	31.8	44.9	55.0	71.0	84.0	100							
						2630	12.7	14.3	25.7	30.4	36.4	51.4	63.0	81.3	96.2	115							
						2700	12.7	14.7	28.6	33.8	40.4	57.2	70.0	90.4	107	128							
	•	•	•	•	•	2780	12.7	15.9	31.8	37.7	45.0	63.7	78.0	101	119	142							
						2860	12.7	17.1	35.1	41.5	49.7	70.2	86.0	111	131	157							

HOW TO MAKE UP THE NOZZLE CODE

EX.: PES 1160 B1

PE S 1160 XX



WIDE ANGLE SPRAY NOZZLES

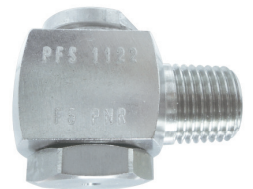
120°	RF	PEW	PFW	PTW	Code	DE mm	DU mm	Capacity at different pressure values								Dimensions mm		
	RG inch	Female	Male	QC				0.5	0.7	1.0	2.0	3.0	5.0	7.0	10	H	L	L1
120°	1/8"	•	•		0390	0.79	1.2	0.16	0.19	0.23	0.32	0.39	0.50	0.60	0.71	19	24	26
		•	•		0780	1.6	1.6	0.32	0.38	0.45	0.64	0.78	1.01	1.19	1.42			
		•	•		1200	2.0	2.8	0.82	0.97	1.15	1.63	2.00	2.58	3.06	3.65			
		•	•		1230	2.4	2.8	0.94	1.11	1.33	1.88	2.30	2.97	3.51	4.20			
		•	•		1270	2.4	3.2	1.10	1.30	1.56	2.20	2.70	3.49	4.12	4.93			
		•	•		1320	2.0	4.4	1.31	1.55	1.85	2.61	3.20	4.13	4.89	5.84			
	1/4"	•	•		1390	3.2	3.2	1.59	1.88	2.25	3.18	3.90	5.03	5.96	7.12	23	32	32
		•	•		1510	3.2	4.4	2.08	2.46	2.94	4.16	5.10	6.58	7.79	9.31			
		•	•		1700	4.0	4.4	2.86	3.38	4.04	5.72	7.00	9.04	10.7	12.8			
		•	•	•	0781	1.6	1.6	0.32	0.38	0.45	0.64	0.78	1.01	1.19	1.42			
		•	•	•	1130	1.6	3.2	0.53	0.63	0.75	1.06	1.30	1.68	1.99	2.37			
		•	•	•	1160	1.6	4.4	0.65	0.77	0.92	1.31	1.60	2.07	2.44	2.92			
3/8"	•	•		1190	1.6	5.6	0.78	0.92	1.10	1.55	1.90	2.45	2.90	3.47	24	34	35	
	•	•		1271	2.0	3.2	1.10	1.30	1.56	2.20	2.70	3.49	4.12	4.93				
	•	•		1321	2.0	4.4	1.31	1.55	1.85	2.61	3.20	4.13	4.89	5.84				
	•	•		1391	3.6	3.2	1.59	1.88	2.25	3.18	3.90	5.03	5.96	7.12				
	•	•		1511	3.6	4.4	2.08	2.46	2.94	4.16	5.10	6.58	7.79	9.31				
	•	•		1600	3.6	5.6	2.45	2.90	3.46	4.90	6.00	7.75	9.17	11.0				
	•	•		1701	4.0	4.4	2.86	3.38	4.04	5.72	7.00	9.04	10.7	12.8				
	•	•		1780	4.8	4.4	3.18	3.77	4.50	6.37	7.80	10.1	11.9	14.2				
	•	•		1860	4.0	5.6	3.51	4.15	4.97	7.02	8.60	11.1	13.1	15.7				
	•	•		1940	4.8	5.6	3.84	4.54	5.43	7.68	9.40	12.1	14.4	17.2				
	•	•		2102	4.4	7.5	4.16	4.93	5.89	8.33	10.2	13.2	15.6	18.6				
	1/2"	•	•		2110	5.2	6.0	4.49	5.31	6.35	8.98	11.0	14.2	16.8				20.1
•		•		2118	6.0	5.6	4.78	5.65	6.75	9.55	11.7	15.1	17.9	21.4				
•		•		2133	6.0	6.0	5.43	6.42	7.68	10.9	13.3	17.2	20.3	24.3				
•		•		2157	7.1	6.0	6.41	7.58	9.06	12.8	15.7	20.3	24.0	28.7				
•		•		2172	6.0	7.9	7.02	8.31	9.93	14.0	17.2	22.2	26.3	31.4				
•		•		2196	7.5	7.5	8.00	9.47	11.3	16.0	19.6	25.3	29.9	35.8				
•		•		2220	7.5	7.9	8.98	10.6	12.7	18.0	22.0	28.4	33.6	40.2				
•		•		2391	9.5	11.1	15.9	18.8	22.5	31.8	39.0	50.3	59.6	71.2				
•		•		2630	12.7	14.3	25.7	30.4	36.4	51.4	63.0	81.3	96.2	115				

HOLLOW CONE NOZZLES

(STARCH NOZZLE) **PFS 1122 F5**

STARCH NOZZLE

In papermaking, the application of starch by spraying is a very common process aid used to provide additional paper strength and to improve the quality, surface and printability of the paper. Our **PFS 1122 F5** is a nozzle specially designed for spraying starch. Its bottom part in ceramic provides an excellent wear-resistance and its internal vaneless design minimizes clogging.



75°	RF	Code	D mm	Capacity at different pressure values							
	inch			0.5	0.7	1.0	2.0	3.0	5.0	7.0	10
75°	1/4"	1122	2.0	0.51	0.59	0.72	1.00	1.22	1.55	1.86	2.22

