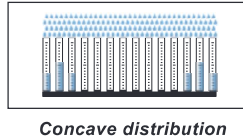


STANDARD ANGLE SPRAY NOZZLES

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



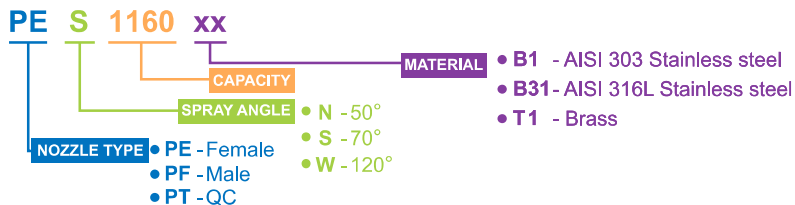
HOLLOW CONE NOZZLES

STANDARD ANGLE SPRAY NOZZLES

◁	RF	PEN	PFN	PTN	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		
50°	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°	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			
					•			2311	12.7	7.9	12.7	15.0	17.9	25.3	31.0	40.0	47.4			
			3/4"	•	•		2392	12.7	9.5	15.9	18.8	22.5	31.8	39.0	50.3	59.6	71.2	39	55	58
	•	•			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					
		•			2940	12.7	18.3	38.4	45.4	54.3	76.8	94.0	121	144	172					

HOW TO MAKE UP THE NOZZLE CODE

EX.: PES 1160 B1



WIDE ANGLE SPRAY NOZZLES

120°	RF RG inch	PEW Female	PFW Male	PTW QC	Code	DE mm	DU mm	Capacity at different pressure values								Dimensions mm		
								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			
1/2"	•	•	•	1701	4.0	4.4	2.86	3.38	4.04	5.72	7.00	9.04	10.7	12.8	31	50	50	
				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				
				2110	5.2	6.0	4.49	5.31	6.35	8.98	11.0	14.2	16.8	20.1				
3/4"	•	•	•	2118	6.0	5.6	4.78	5.65	6.75	9.55	11.7	15.1	17.9	21.4	39	55	58	
				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				

HOLLOW CONE NOZZLES