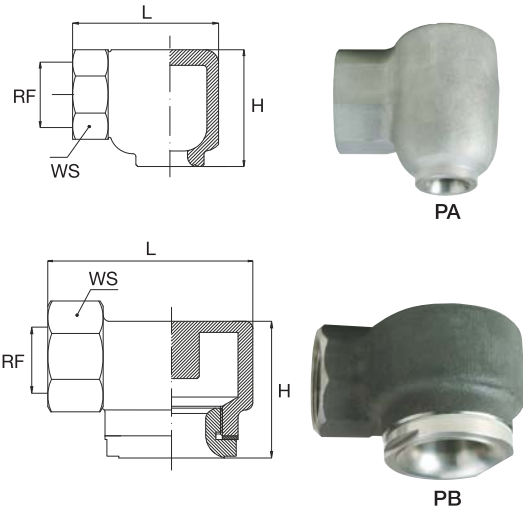


**HOLLOW CONE NOZZLES**

**PA/PB**

**TANGENTIAL NOZZLES**

PA type nozzles produce a hollow cone jet working on the tangential flow principle and with a nominal spray angle forms a ring shaped impact area. The nozzle has no internal vanes and the liquid to be sprayed enters the nozzle through the inlet which is set perpendicular to the outlet. Centrifugal force is created within the whirl chamber and this produces the energy to break up the liquid being sprayed. The narrowest section through the nozzle is normally the water inlet diameter for standard angle nozzles (shown as DE in the table below), and the outlet orifice for the wide angle nozzles (shown as DU). These nozzles offer a remarkable resistance to clogging and avoid costly downtime for dismantling and cleaning operations. Sizes up to 3/4 are made out of a drop-forged body, with an upper cover for nozzle cleaning. Sizes from 1 and larger are machined from a one piece casting.



**Materials**      **B31**    **AISI 316L Stainless steel**  
                          **T1**      **Brass**

Code	RF inch	DE mm	DU mm	Capacity at different pressure values										lpm bar	Dimensions mm		
				0.3	0.5	0.7	1.0	2.0	3.0	5.0	7.0	10	H		L	WS	
70° PAS 1170 xx	3/8	3.5	2.0		0.69	0.72	0.98	1.39	1.70	2.19	2.60	3.10	27	37	22		
90°	PAU 1390 xx	3/8	4.0	3.8	1.23	1.59	1.88	2.25	3.18	3.90	5.03	5.96	7.12	38	46	27	
	PAU 1670 xx	1/2	5.6	5.2	2.12	2.74	3.24	3.87	5.47	6.70	8.65	10.2	12.2				
	PAU 1850 xx		5.7	6.0	2.69	3.47	4.11	4.91	6.94	8.50	11.0	13.0	15.5				
	PAU 2115 xx		6.6	6.9	3.64	4.69	5.56	6.64	9.39	11.5	14.8	17.6	21.0				
	PAU 2220 xx	3/4	8.5	9.0	6.96	8.98	10.6	12.7	18.0	22.0	28.4	33.6	40.2	48	60	36	
	PAU 2320 xx		9.5	11.5	10.1	13.1	15.5	18.5	26.1	32.0	41.3	48.9	58.4				
	PAU 2420 xx		9.6	14.0	13.3	17.1	20.3	24.2	34.3	42.0	54.2	64.2	76.7				
	PAU 2730 xx	1	20x10	13.7	23.1	29.8	35.3	42.1	59.6	73.0	94.2	112	133	60	75	46	
	PAU 2970 xx			16.5	30.7	39.6	46.9	56.0	79.2	97.0	125	148	177				
	PAU 3147 xx	1+1/2	32x16	19.5	46.5	60.0	71.0	84.9	120	147	190	225	268	90	93	60	
PAU 3194 xx			22.0	61.3	79.2	93.7	112	158	194	250	296	354					
PAU 3244 xx	2	35x20	26.5	77.2	99.6	118	141	199	244	315	373	445	127	117	80		
PAU 3294 xx			28.5	93.0	120	142	170	240	294	380	449	537					
PAU 3364 xx	2+1/2	40x40	29.5	115	149	176	210	297	364	470	556	665	156	140	100		
PAU 3490 xx			36.5	155	200	237	283	400	490	633	748	895					
PAU 3605 xx			45.0	191	247	292	349	494	605	781	924	1105					
130°	PBY 1390 xx	3/8	3.5	4.5		1.59	1.88	2.25	3.18	3.90	5.03	5.96	7.12	27	37	22	
	PBY 1850 xx		4.4	7.5	2.69	3.47	4.11	4.91	6.94	8.50	11.0	13.0	15.5				
	PBY 1980 xx	1/2	4.0	12	3.10	4.00	4.73	5.66	8.00	9.80	12.7	15.0	17.9	35	46	27	
	PBY 2128 xx		4.7	12	4.05	5.23	6.18	7.39	10.5	12.8	16.5	19.6	23.4				
	PBY 2208 xx		6.5	12	6.58	8.49	10.0	12.0	17.0	20.8	26.9	31.6	38.0				
	PBY 2220 xx	3/4	6.1	15	6.96	8.98	10.6	12.7	18.0	22.0	28.4	33.6	40.2	50	60	36	
	PBY 2320 xx		6.5	19	10.1	13.1	15.5	18.5	26.1	32.0	41.3	48.9	58.4				
	PBY 2420 xx		8.0	19	13.3	17.1	20.3	24.2	34.3	42.0	54.2	64.2	76.7				
	PBY 2730 xx	1	13.4	26	23.1	29.8	35.3	42.1	59.6	73.0	94.2	112	133	60	93	47	
	PBY 2970 xx		14.0	26	30.7	39.6	46.9	56.0	79.2	97.0	125	148	177				
	PBY 3147 xx	1+1/2	15.0	37	46.5	60.0	71.0	84.9	120	147	190	225	268	75	111	60	
	PBY 3194 xx		19.5	37	61.3	79.2	93.7	112	158	194	250	296	354				
	PBY 3244 xx	2	22.0	45	77.2	99.6	118	141	199	244	315	373	445	91	140	75	
	PBY 3294 xx		27.1	45	93.0	120	142	170	240	294	380	449	537				
PBY 3364 xx	2+1/2	25.5	64	115	149	176	210	297	364	470	556	665	128	193	90		
PBY 3490 xx		33.0	64	155	200	237	283	400	490	633	748	895					
PBY 3605 xx		38.0	64	191	247	292	349	494	605	781	924	1105					
PBY 3665 xx		43.0	64	210	271	321	384	543	665	858	1016	1214					

Material table	3/8	1/2	3/4	1	1+	1/222+	1/2
A/S/316L							
Brass							