

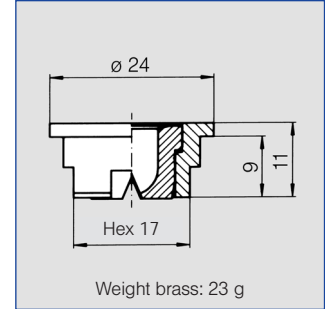


# Flat fan nozzles for retaining nut Series 656



**Assembly with retaining nut.  
Easy nozzle changing, simple  
jet alignment. Uniform, para-  
bolic distribution of liquid.  
Increased non-clogging fea-  
tures, more jet power, less  
fog.**

Applications:  
Cleaning installations, gravel  
washing, cooling headers,  
spray pipes, roll cooling, cool-  
ing of rolled stock.



∠ Spray angle	Ordering no.				A ∅ [mm]	E ∅ [mm]	V̇ [l/min]							Spray width B at p = 2 bar	
	Type	Material-no.					p [bar]							 H = 250 mm    H = 500 mm	
		16 1.4305/303 SS	17 1.4571/316 SS	30 Brass			0,5	1,0	2,0	[US gal./ min] at 40 psi	3,0	5,0	10,0		
20°	656. 721	○	○	○	3,00	2,50	3,15	4,45	6,30	1,95	7,72	9,96	14,09	110	205
	656. 801	○	○	○	4,00	3,20	5,00	7,07	10,00	3,10	12,25	15,81	22,36	110	205
	656. 881	○	○	○	5,00	4,00	8,00	11,31	16,00	4,96	19,60	25,30	35,78	110	205
	656. 921	○	○	○	5,50	4,40	10,00	14,14	20,00	6,20	24,49	31,62	44,72	110	205
	656. 961	○	○	○	6,00	5,30	12,50	17,68	25,00	7,75	30,62	39,53	55,90	110	205
30°	656. 722	○	○	○	3,00	2,40	3,15	4,45	6,30	1,95	7,72	9,96	14,09	150	280
	656. 762	○	○	○	3,50	2,70	4,00	5,66	8,00	2,48	9,80	12,65	17,89	150	280
	656. 802	○	○	○	4,00	3,10	5,00	7,07	10,00	3,10	12,25	15,81	22,36	150	280
	656. 882	○	○	○	5,00	4,00	8,00	11,31	16,00	4,96	19,60	25,30	35,78	150	280
	656. 922	○	○	○	5,50	4,40	10,00	14,14	20,00	6,20	24,49	31,62	44,72	150	280
	656. 962	○	-	○	6,00	5,00	12,50	17,68	25,00	7,75	30,62	39,53	55,90	150	280
45°	656. 723	○	○	○	3,00	2,40	3,15	4,45	6,30	1,95	7,72	9,96	14,09	280	520
	656. 763	○	○	○	3,50	2,60	4,00	5,66	8,00	2,48	9,80	12,65	17,89	280	520
	656. 803	○	○	○	4,00	3,00	5,00	7,07	10,00	3,10	12,25	15,81	22,36	280	520
	656. 843	○	○	○	4,50	3,40	6,25	8,84	12,50	3,88	15,31	19,76	27,95	280	520
	656. 883	○	○	○	5,00	3,80	8,00	11,31	16,00	4,96	19,60	25,30	35,78	280	520
	656. 923	○	○	○	5,50	4,20	10,00	14,14	20,00	6,20	24,49	31,62	44,72	280	520
	656. 963	○	○	○	6,00	4,40	12,50	17,68	25,00	7,75	30,62	39,53	55,90	280	520
60°	656. 724	○	○	○	3,00	2,10	3,15	4,45	6,30	1,95	7,72	9,96	14,09	320	595
	656. 764	○	○	○	3,50	2,30	4,00	5,66	8,00	2,48	9,80	12,65	17,89	320	595
	656. 804	○	○	○	4,00	2,60	5,00	7,07	10,00	3,10	12,25	15,81	22,36	320	595
	656. 844	○	○	○	4,50	3,00	6,25	8,84	12,50	3,88	15,31	19,76	27,95	320	595
	656. 884	○	○	○	5,00	3,40	8,00	11,31	16,00	4,96	19,60	25,30	35,78	320	595
	656. 924	○	○	○	5,50	4,10	10,00	14,14	20,00	6,20	24,49	31,62	44,72	320	595
	656. 964	○	○	○	6,00	4,20	12,50	17,68	25,00	7,75	30,62	39,53	55,90	320	595
	657. 044	-	-	○	8,00	5,50	20,00	28,28	40,00	12,41	48,99	63,25	89,44	320	595
	90°	656. 726	○	○	○	3,00	1,70	3,15	4,45	6,30	1,95	7,72	9,96	14,09	420
656. 766		○	○	○	3,50	1,90	4,00	5,66	8,00	2,48	9,80	12,65	17,89	420	800
656. 806		○	○	○	4,00	2,40	5,00	7,07	10,00	3,10	12,25	15,81	22,36	420	800
656. 846		○	○	○	4,50	2,40	6,25	8,84	12,50	3,88	15,31	19,76	27,95	420	800
656. 886		○	○	○	5,00	3,10	8,00	11,31	16,00	4,96	19,60	25,30	35,78	420	800
656. 926		○	○	○	5,50	3,60	10,00	14,14	20,00	6,20	24,49	31,62	44,72	420	800
656. 966		○	○	○	6,00	3,90	12,50	17,68	25,00	7,75	30,62	39,53	55,90	420	800
657. 046		-	-	○	8,00	4,90	20,00	28,28	40,00	12,41	48,99	63,25	89,44	420	800

A = Equivalent bore diameter · E = narrowest free cross section  
Subject to technical modifications.

Continued on next page.

Conversion formula for the above series:  $\dot{V}_2 = \dot{V}_1 \cdot \sqrt{\frac{p_2}{p_1}}$

