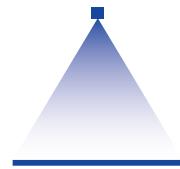


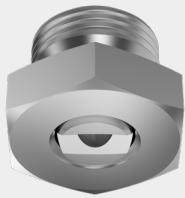
Low pressure flat fan nozzles

Series 612

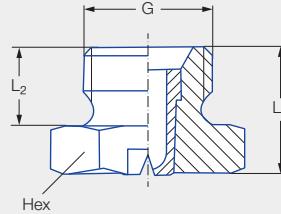


Features:

- Uniform, parabolic liquid distribution
- Stable spray angle
- Compact design for narrow installation conditions



Series 612



Applications:

- Spray cleaning
- Surface cleaning
- Strainer insert cleaning
- Coating processes
- Belt cleaning
- Lubrication processes

G	Dimensions [in]			Weight [lb] Brass
	L ₁	L ₂	Hex (mm)	
1/4 BSPP	.51	.31	17	.03

Spray angle	Type	Ordering number			Equivalent bore diameter A [in]	Narrowest free cross section Ø [in]	V water [gal/min]						Spray width B [in] (at p = 75 psi)			
		Material number					p [psi]									
		16	17 ¹	30			7	15	30	45	75	5 bar	100	145	H = 10 [in]	H = 20 [in]
20°	Stainless steel 303	612.301	●	●	0.03	0.02	0.04*	0.06*	0.09	0.11	0.14	0.51	0.16	0.19	3	6
		612.361	●	●	0.04	0.03	0.08*	0.12*	0.17	0.21	0.27	1.00	0.31	0.37	3	6
		612.441	●	●	0.05	0.04	0.16*	0.24	0.34	0.41	0.53	1.98	0.61	0.74	3	6
		612.481	●	●	0.06	0.05	0.21*	0.30	0.43	0.53	0.68	2.53	0.78	0.95	3	6
30°	Stainless steel 316Ti/ Stainless steel 316L	612.302	●	●	0.02	0.02	0.04*	0.06*	0.09	0.11	0.14	0.51	0.16	0.19	5	9
		612.362	●	●	0.04	0.03	0.08*	0.12*	0.17	0.21	0.27	1.00	0.31	0.37	5	9
		612.402	●	●	0.05	0.035	0.13*	0.19	0.27	0.33	0.42	1.58	0.49	0.59	5	9
		612.482	●	●	0.06	0.04	0.21*	0.30	0.43	0.53	0.68	2.53	0.78	0.95	5	9
		612.562	●	●	0.08	0.06	0.32	0.47	0.67	0.82	1.06	3.95	1.23	1.48	5	9
		612.642	●	●	0.10	0.07	0.52	0.76	1.08	1.32	1.70	6.33	1.96	2.36	6	10
		612.722	●	●	0.12	0.09	0.82	1.20	1.69	2.07	2.68	9.96	3.09	3.72	6	10
		612.762	●	●	0.14	0.11	1.04	1.52	2.15	2.63	3.40	12.65	3.92	4.73	6	10
		612.802	●	●	0.16	0.12	1.30	1.90	2.69	3.29	4.25	15.81	4.90	5.91	6	10
45°	Brass	612.303	●	●	0.03	0.02	0.04*	0.06*	0.08	0.11	0.13	0.51	0.16	0.19	7	13
		612.363	●	●	0.04	0.023	0.08*	0.12*	0.17	0.20	0.26	1.00	0.31	0.37	7	14
		612.403	●	●	0.05	0.035	0.13*	0.19	0.26	0.32	0.42	1.58	0.49	0.59	8	15
		612.483	●	●	0.06	0.04	0.21*	0.30	0.43	0.53	0.68	2.53	0.78	0.95	8	15
		612.563	●	●	0.08	0.06	0.32	0.47	0.67	0.82	1.06	3.95	1.23	1.48	8	16
		612.643	●	●	0.10	0.07	0.52	0.76	1.08	1.32	1.70	6.33	1.96	2.36	9	16
		612.723	●	●	0.12	0.09	0.82	1.20	1.69	2.07	2.68	9.96	3.09	3.72	9	17
		612.763	●	●	0.14	0.11	1.04	1.52	2.15	2.63	3.40	12.65	3.92	4.73	9	17
		612.803	●	●	0.16	0.12	1.30	1.90	2.69	3.29	4.25	15.81	4.90	5.91	9	17

* Differing spray pattern.

¹ We reserve the right to supply material 316Ti or 316L under material no. 17.

NPT version available by request





Spray angle	Ordering number				Equivalent bore diameter A [in]	Narrowest free cross section Ø [in]	V water [gal/min]							Spray width B [in] (at p = 75 psi)				
	Material number			Type			p [psi]											
	16	17 ¹	30				7	15	30	45	75	liters per minute	5 bar	100	145	H = 10 [in]	H = 20 [in]	
60°	612.304	●	●	●	0.03	0.016	0.04*	0.06*	0.09	0.11	0.14	0.51	0.16	0.19	10	19		
	612.334	●	●	●	0.035	0.02	0.06*	0.09*	0.12	0.15	0.19	0.71	0.22	0.27	10	19		
	612.364	●	●	●	0.04	0.024	0.08*	0.12*	0.17	0.21	0.27	1.00	0.31	0.37	10	20		
	612.404	●	●	●	0.047	0.03	0.13*	0.19	0.27	0.33	0.42	1.58	0.49	0.59	10	20		
	612.444	●	●	●	0.05	0.035	0.16*	0.24	0.34	0.41	0.53	1.98	0.61	0.74	10	20		
	612.484	●	●	●	0.06	0.04	0.21*	0.30	0.43	0.53	0.68	2.53	0.78	0.95	10	20		
	612.514	●	●	●	0.065	0.043	0.25*	0.36	0.51	0.62	0.81	3.00	0.93	1.12	11	20		
	612.564	●	●	●	0.08	0.05	0.32	0.47	0.67	0.82	1.06	3.95	1.23	1.48	11	21		
	612.604	●	●	●	0.09	0.06	0.41	0.60	0.85	1.04	1.34	4.98	1.54	1.86	11	21		
	612.644	●	●	●	0.10	0.063	0.52	0.76	1.08	1.32	1.70	6.33	1.96	2.36	11	21		
	612.674	●	●	●	0.11	0.07	0.63	0.89	1.25	1.54	1.98	7.51	2.35	2.81	11	22		
	612.724	●	●	●	0.12	0.08	0.82	1.20	1.69	2.07	2.88	9.96	3.09	3.72	11	22		
	612.764	●	●	●	0.14	0.09	1.04	1.52	2.15	2.63	3.40	12.65	3.92	4.73	11	22		
	612.804	●	●	●	0.16	0.10	1.30	1.90	2.69	3.29	4.25	15.81	4.90	5.91	11	23		
	612.884	●	●	●	0.20	0.13	2.08	3.04	4.30	5.26	6.80	25.30	7.85	9.45	11	23		
75°	612.145	●		●	0.008	0.004	—	0.01*	0.014	0.017	0.021	0.08	0.025	0.03	15	27		
	612.165	●		●	0.008	0.005	—	0.01*	0.017	0.02	0.027	0.10	0.03	0.04	15	27		
	612.185	●		●	0.008	0.006	—	0.011*	0.02	0.03	0.035	0.13	0.04	0.05	15	27		
	612.215	●		●	0.016	0.008	—	0.02*	0.03	0.04	0.05	0.18	0.06	0.07	15	27		
	612.245	●		●	0.02	0.012	—	0.03*	0.04	0.05	0.07	0.26	0.08	0.10	15	27		
	612.275	●		●	0.024	0.012	0.03*	0.04	0.06	0.07	0.09	0.35	0.11	0.13	15	27		
90°	612.216	●		●	0.016	0.008	—	0.02*	0.03	0.04	0.05	0.18	0.06	0.07	17	31		
	612.276	●		●	0.024	0.012	0.03*	0.04*	0.06	0.07	0.09	0.35	0.11	0.13	17	31		
	612.306	●	●	●	0.03	0.016	0.04*	0.06*	0.09	0.11	0.14	0.51	0.16	0.19	17	31		
	612.336	●	●	●	0.035	0.02	0.06*	0.09*	0.12	0.15	0.19	0.71	0.22	0.27	17	32		
	612.366	●	●	●	0.04	0.028	0.08*	0.12*	0.17	0.21	0.27	1.00	0.31	0.37	18	33		
	612.406	●	●	●	0.047	0.03	0.13*	0.19	0.27	0.33	0.42	1.58	0.49	0.59	18	33		
	612.446	●	●	●	0.05	0.03	0.16*	0.24	0.34	0.41	0.53	1.98	0.61	0.74	18	34		
	612.486	●	●	●	0.06	0.03	0.21*	0.30	0.43	0.53	0.68	2.53	0.78	0.95	19	34		
	612.516	●	●	●	0.065	0.035	0.25*	0.36	0.51	0.62	0.81	3.00	0.93	1.12	19	35		
	612.566	●	●	●	0.08	0.04	0.33	0.47	0.66	0.81	1.04	3.95	1.23	1.48	19	35		
	612.606	●	●	●	0.09	0.047	0.41	0.60	0.85	1.04	1.34	4.98	1.54	1.86	20	36		
	612.646	●	●	●	0.10	0.05	0.52	0.76	1.08	1.32	1.70	6.33	1.96	2.36	20	37		
	612.676	●	●	●	0.11	0.06	0.62	0.90	1.28	1.56	2.02	7.51	2.33	2.81	20	37		
	612.726	●	●	●	0.12	0.067	0.82	1.20	1.69	2.07	2.88	9.96	3.09	3.72	20	39		
	612.766	●	●	●	0.14	0.07	1.04	1.52	2.15	2.63	3.40	12.65	3.92	4.73	21	39		
	612.806	●	●	●	0.16	0.09	1.30	1.90	2.69	3.29	4.25	15.81	4.90	5.91	21	41		

* Differing spray pattern.

¹ We reserve the right to supply material 316Ti or 316L under material no. 17.

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Spray angle	Ordering number				Equivalent bore diameter A [in]	Narrowest free cross section Ø [in]	V̄ water [gal/min]							Spray width B [in] (at p = 75 psi)			
	Type	Material number					p [psi]										
		16	17 ¹	30			7	15	30	45	75	liters per minute	5 bar	100	145	H = 10 [in]	H = 20 [in]
120°	612.187	●	●	●	0.014	0.008	—	0.02*	0.02	0.03	0.03	0.13	0.04	0.05	25	42	
	612.217	●	●	●	0.016	0.008	—	0.02*	0.03	0.04	0.05	0.18	0.06	0.07	26	43	
	612.247	●	●	●	0.02	0.008	—	0.03*	0.04	0.05	0.07	0.26	0.08	0.10	26	43	
	612.277	●	●	●	0.024	0.012	0.03*	0.04*	0.06	0.07	0.09	0.35	0.11	0.13	26	45	
	612.307	●	●	●	0.03	0.012	0.04*	0.06*	0.09	0.11	0.14	0.51	0.16	0.19	28	49	
	612.337	●	●	●	0.035	0.016	0.06*	0.09*	0.12	0.15	0.19	0.71	0.22	0.27	29	53	
	612.367	●	●	●	0.04	0.016	0.08*	0.12*	0.17	0.21	0.27	1.00	0.31	0.37	31	56	
	612.407	●	●	●	0.047	0.02	0.13*	0.19	0.27	0.33	0.42	1.58	0.49	0.59	33	58	
	612.447	●	●	●	0.05	0.02	0.16*	0.24	0.34	0.41	0.53	1.98	0.61	0.74	33	60	
	612.487	●	●	●	0.06	0.02	0.21*	0.30	0.43	0.53	0.68	2.53	0.78	0.95	33	61	
	612.517	●	●	●	0.065	0.035	0.25*	0.36	0.51	0.62	0.81	3.00	0.93	1.12	33	61	
	612.567	●	●	●	0.08	0.035	0.32	0.47	0.67	0.82	1.06	3.95	1.23	1.48	34	63	
	612.607	●	●	●	0.09	0.04	0.41	0.60	0.85	1.04	1.34	4.98	1.54	1.86	34	64	
	612.647	●	●	●	0.10	0.05	0.52	0.76	1.08	1.32	1.70	6.33	1.96	2.36	35	65	
	612.677	●	●	●	0.11	0.06	0.62	0.90	1.28	1.56	2.02	7.51	2.33	2.81	35	65	
	612.727	●	●	●	0.12	0.063	0.82	1.20	1.69	2.07	2.68	9.96	3.09	3.72	35	66	
	612.767	●	●	●	0.14	0.07	1.04	1.52	2.15	2.63	3.40	12.65	3.92	4.73	35	67	
	612.807	●	●	●	0.16	0.08	1.30	1.90	2.69	3.29	4.25	15.81	4.90	5.91	35	67	

* Differing spray pattern.

¹ We reserve the right to supply material 316Ti or 316L under material no. 17.

NPT version available by request

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

Ordering Type + Material no. = Ordering no.
example: 612.187 + 16 = 612.187.16



Assembly accessories can be found in Chapter 12
"Accessories".