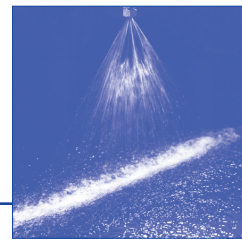




Flat fan dovetail nozzles

Series 664 / 665



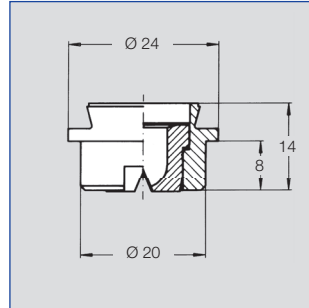
Assembly with retaining nut. Automatic jet alignment due to dovetail guide. Stable spray angle. Parabolic distribution of liquid. Spray pipes with these nozzles show an extremely uniform total liquid distribution.

Applications:

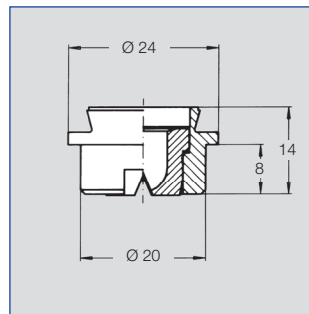
Cleaning, pickling, coating, rinsing.




Mat. no. 17



Mat. no. 5E



Spray angle 	Ordering no.					A Ø [mm]	E Ø [mm]	\dot{V} [l/min]							Spray width B	
	Type	Mat. no.			p [bar]							at p=2 bar				
		17 ¹	5E	53	0.5			1.0	2.0	3.0	5.0	7.0	10.0	H = 250 mm	H = 500 mm	
		AISI 316Ti AISI 316L	PVDF	PP												
45°	664.723	○	○	○	3.00	2.40	3.15	4.45	6.30	7.72	9.96	11.79	14.09	205	400	
	664.763	○	○	○	3.50	2.60	4.00	5.66	8.00	9.80	12.65	14.97	17.89	205	400	
	664.803	○	○	○	4.00	3.00	5.00	7.07	10.00	12.25	15.81	18.71	22.36	205	400	
	664.843	○	○	○	4.50	3.40	6.25	8.84	12.50	15.31	19.67	23.39	27.95	205	400	
	664.883	○	○	○	5.00	3.80	8.00	11.31	16.00	19.60	25.30	29.93	35.78	205	400	
	664.923	○	○	○	5.50	4.20	10.00	14.14	20.00	24.49	31.62	37.42	44.72	205	400	
	664.943	○	○	○	5.70	4.30	11.20	15.84	22.40	27.44	35.42	41.91	50.09	205	400	
	664.963	○	○	○	6.00	4.40	12.50	17.68	25.00	30.62	39.53	46.77	55.90	205	400	
	664.983	○	○	○	6.30	4.70	14.00	19.80	28.00	34.29	44.27	52.38	62.61	205	400	
	665.003	○	○	○	6.60	5.20	15.75	22.27	31.50	38.57	49.80	58.92	70.43	205	400	
	665.013	○	○	○	6.80	5.20	16.75	23.69	33.50	41.03	52.97	62.67	74.91	205	400	
	665.043	○	○	○	8.00	5.90	20.00	28.28	40.00	48.99	63.25	74.83	89.44	205	400	
	665.063	○	○	○	8.70	6.20	22.50	31.84	45.00	55.15	71.20	84.24	100.69	205	400	
	665.083	○	○	○	9.00	6.60	25.00	35.36	50.00	61.24	79.06	93.54	111.80	205	400	
	665.123	○	○	○	10.00	7.40	31.50	44.55	63.00	77.16	99.61	117.86	140.87	205	400	
	665.163	○	○	○	10.80	8.40	40.00	56.57	80.00	97.99	126.50	149.68	178.90	205	400	
665.183	○	○	○	11.30	9.20	45.00	63.54	90.00	110.23	142.30	168.37	201.24	205	400		
665.203	○	○	○	12.00	9.80	50.00	70.71	100.00	127.47	158.11	167.08	223.61	205	400		
60°	664.724	○	○	○	3.00	2.10	3.15	4.45	6.30	7.72	9.96	11.79	14.09	300	560	
	664.764	○	○	○	3.50	2.30	4.00	5.66	8.00	9.80	12.65	14.97	17.89	300	565	
	664.804	○	○	○	4.00	2.60	5.00	7.07	10.00	12.25	15.81	18.71	22.36	300	565	
	664.844	○	○	○	4.50	3.00	6.25	8.84	12.50	15.31	19.67	23.39	27.95	300	570	
	664.884	○	○	○	5.00	3.40	8.00	11.31	16.00	19.60	25.30	29.93	35.78	305	570	
	664.924	○	○	○	5.50	4.10	10.00	14.14	20.00	24.49	31.62	37.42	44.72	305	575	
	664.944	○	○	○	5.70	4.20	11.20	15.84	22.40	27.44	35.42	41.91	50.09	305	575	
	664.964	○	○	○	6.00	4.20	12.50	17.68	25.00	30.62	39.53	46.77	55.90	310	580	
	664.984	○	○	○	6.30	4.50	14.00	19.80	28.00	34.29	44.27	52.38	62.61	315	585	

¹We reserve the right to deliver AISI 316Ti or AISI 316L under the material no. 17.
E = Narrowest free cross section · A = Equivalent bore diameter

Continued on next page.

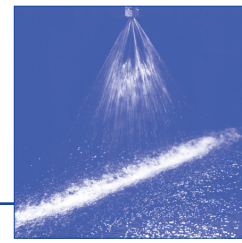
Conversion formula for the above series: $\dot{V}_2 = \dot{V}_1 \cdot \sqrt{\frac{p_2}{p_1}}$






Flat fan dovetail nozzles

Series 664 / 665



Spray angle 	Ordering no.				A Ø [mm]	E Ø [mm]	V̇ [l/min]							Spray width B	
	Type	Mat. no.					p [bar]							at p=2 bar	
		17 ¹	5E	53			0.5	1.0	2.0	3.0	5.0	7.0	10.0	H = 250 mm	H = 500 mm
		AISI 316Ti/ AISI 316L	PVDF	PP											
60°	665.004	○	○	○	6.60	4.80	15.75	22.27	31.50	38.57	49.80	58.92	70.43	310	580
	665.014	○	○	○	6.80	4.90	16.75	23.69	33.50	41.03	52.97	62.67	74.91	310	580
	665.044	○	○	○	8.00	5.50	20.00	28.28	40.00	48.99	63.25	74.83	89.44	315	585
	665.064	○	○	○	8.70	5.80	22.50	31.84	45.00	55.15	71.20	84.24	100.69	315	585
	665.084	○	○	○	9.00	6.20	25.00	35.36	50.00	61.24	79.06	93.54	111.80	320	590
	665.124	○	○	○	10.00	7.40	31.50	44.55	63.00	77.16	99.61	117.86	140.87	325	600
	665.164	○	○	○	10.80	8.30	40.00	56.57	80.00	97.99	126.50	149.68	178.90	325	600
	665.184	○	○	○	11.30	8.90	45.00	63.54	90.00	110.23	142.30	168.37	201.24	325	600
665.204	○	○	○	12.00	9.50	50.00	70.71	100.00	127.47	158.11	167.08	223.61	325	600	
75°	664.725	○	○	○	3.00	1.90	3.15	4.45	6.30	7.72	9.96	11.79	14.09	345	645
	664.765	○	○	○	3.50	2.10	4.00	5.66	8.00	9.80	12.65	14.97	17.89	345	645
	664.805	○	○	○	4.00	2.60	5.00	7.07	10.00	12.25	15.81	18.71	22.36	345	645
	664.845	○	○	○	4.50	3.00	6.25	8.84	12.50	15.31	19.67	23.39	27.95	345	645
	664.885	○	○	○	5.00	3.30	8.00	11.31	16.00	19.60	25.30	29.93	35.78	345	645
	664.925	○	○	○	5.50	3.80	10.00	14.14	20.00	24.49	31.62	37.42	44.72	345	645
	664.965	○	○	○	6.00	4.10	12.50	17.68	25.00	30.62	39.53	46.77	55.90	345	645
	665.005	○	○	○	6.60	4.30	15.75	22.27	31.50	38.57	49.80	58.92	70.43	345	645
	665.015	○	○	○	6.80	4.60	16.75	23.69	33.50	41.03	52.97	62.67	74.91	345	645
	665.045	○	○	○	8.00	5.30	20.00	28.28	40.00	48.99	63.25	74.83	89.44	345	645
	665.085	○	○	○	9.00	6.10	25.00	35.36	50.00	61.24	79.06	93.54	111.80	345	645
	665.125	○	○	○	10.00	6.80	31.50	44.55	63.00	77.16	99.61	117.86	140.87	345	645
90°	664.726	○	○	○	3.00	1.70	3.15	4.45	6.30	7.72	9.96	11.79	14.09	420	800
	664.766	○	○	○	3.50	1.90	4.00	5.66	8.00	9.80	12.65	14.97	17.89	420	800
	664.806	○	○	○	4.00	2.40	5.00	7.07	10.00	12.25	15.81	18.71	22.36	420	800
	664.846	○	○	○	4.50	2.40	6.25	8.84	12.50	15.31	19.67	23.39	27.95	420	800
	664.886	○	○	○	5.00	3.10	8.00	11.31	16.00	19.60	25.30	29.93	35.78	420	800
	664.926	○	○	○	5.50	3.60	10.00	14.14	20.00	24.49	31.62	37.42	44.72	420	800
	664.966	○	○	○	6.00	3.90	12.50	17.68	25.00	30.62	39.53	46.77	55.90	420	800
	665.046	○	○	○	8.00	4.90	20.00	28.28	40.00	48.99	63.25	74.83	89.44	420	800
665.126	○	○	○	10.00	6.40	31.50	44.55	63.00	77.16	99.61	117.86	140.87	420	800	
120°	664.727	○	○	○	3.00	1.60	3.15	4.45	6.30	7.72	9.96	11.79	14.09	1240	2150
	664.767	○	○	○	3.50	1.70	4.00	5.66	8.00	9.80	12.65	14.97	17.89	1240	2150
	664.807	○	○	○	4.00	2.00	5.00	7.07	10.00	12.25	15.81	18.71	22.36	1240	2150
	664.847	○	○	○	4.50	2.30	6.25	8.84	12.50	15.31	19.67	23.39	27.95	1240	2150
	664.887	○	○	○	5.00	2.60	8.00	11.31	16.00	19.60	25.30	29.93	35.78	1240	2150
	664.927	○	○	○	5.50	2.90	10.00	14.14	20.00	24.49	31.62	37.42	44.72	1240	2150
	664.967	○	○	○	6.00	3.20	12.50	17.68	25.00	30.62	39.53	46.77	55.90	1240	2150
	665.047	○	○	○	8.00	4.40	20.00	28.28	40.00	48.99	63.25	74.83	89.44	1240	2150
665.127	○	○	○	10.00	5.70	31.50	44.55	63.00	77.16	99.61	117.86	140.87	1240	2150	

¹We reserve the right to deliver AISI 316Ti or AISI 316L under the material no. 17.
E = Narrowest free cross section · A = Equivalent bore diameter

Example of ordering: Type **665.004** + Material no. **17** = Ordering no. **665.004.17**



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



Flat fan dovetail nozzles Accessories Series 664 / 665

Retaining nut:

065.600.17¹
(AISI 316Ti/AISI 316L)

Mat. no. 17

065.600.5E (PVDF)

Mat. no. 5E

Welding nipple:

066.410.17¹
(AISI 316Ti/AISI 316L);
L = 27 mm

066.410.5E (PVDF);
L = 27 mm

066.411.17¹
(AISI 316Ti/AISI 316L);
L = 60 mm

066.411.17¹.04
(AISI 316Ti/AISI 316L);
L = 110 mm

Other lengths on request.

Nipple with radius

066.412.17¹
(AISI 316Ti/AISI 316L)

Welding nipple:

Standard radiused for welding nipples (others on request)

Ordering no.	Radius
066.412.17.10	10
066.412.17.13	12.5
066.412.17.16	16
066.412.17.20	20
066.412.17.25	25
066.412.17.31	31

Blind Tip

Blind: **006.642.17¹**
(AISI 316Ti/AISI 316L)

Tip: **006.642.5E** (PVDF)

Other offset angles are available on request

Alignment Tips

Material AISI 303

066.490.16.00 066.490.16.01 066.490.16.02 066.490.16.03

066.490.16.04 066.490.16.05 066.490.16.06 066.490.16.07 066.490.16.08

Welding nipple (L = 27 mm) with nozzle and cap nut

Minimum pitch for series 664/665

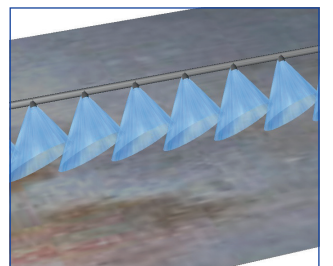
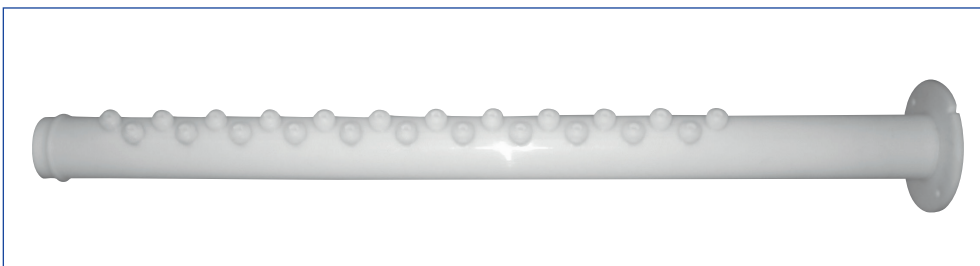
min. 45

9.3

4.7

Ø 45

required clearance for box nut



Spray header for pickling line with nozzles series 664/665

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

