

Flat fan nozzle with dove-tail alignment

Series 664/665

Series 664 / 665

Assembly with retaining nut.
Self aligning jet with dove-tail design secures correct spray position for optimal strand surface quality and easy maintenance. Standard version with parabolic liquid distribution.

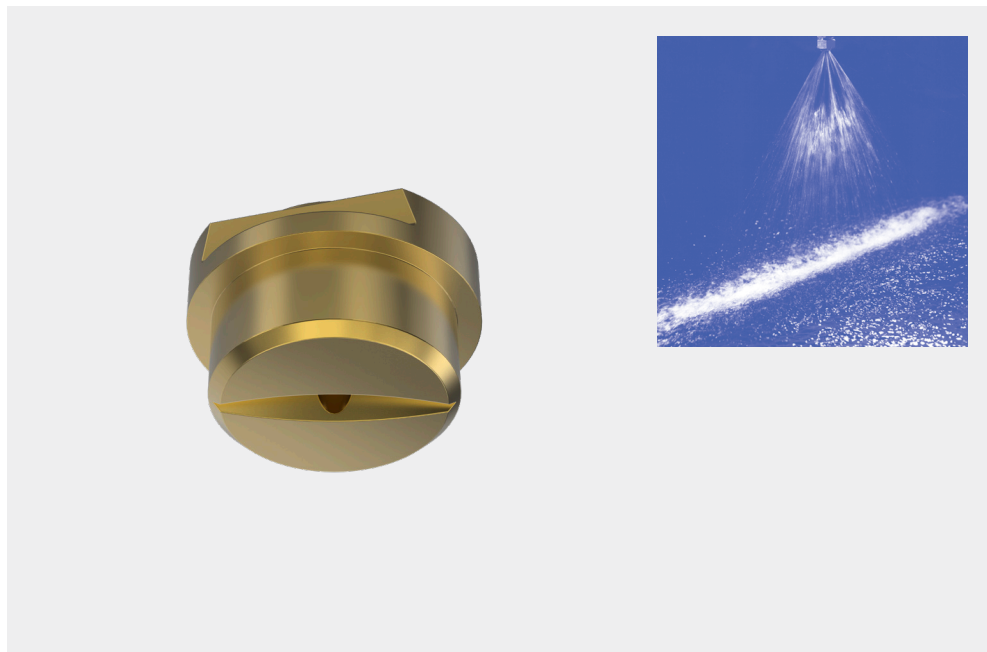
Applications:

Multi and single nozzle arrangements in segments for water only secondary cooling.

- Standard offset angle 15° built into the nozzle
- 0° offset angle available on request 664.xxx.xx.74 or 665.xxx.xx.74

Available also with rectangular liquid distribution for single nozzle arrangement (per roller gap) or wide pitches 664.xxx.xx.90 or 665.xxx.xx.90

Available also with rectangular liquid distribution combined with 0° offset angle for single nozzle arrangement (per roller gap) or wide pitches 664.xxx.xx.96 665.xxx.xx.96 in narrow roller gaps.



Special nozzle types:

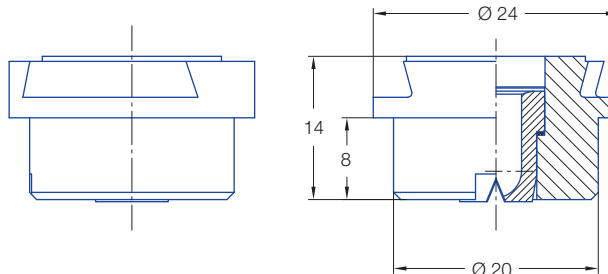
Type + Material No. + Special No

Special No:
00= standard nozzle

74 = flat jet parallel to dove tail

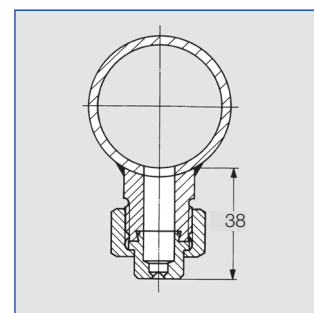
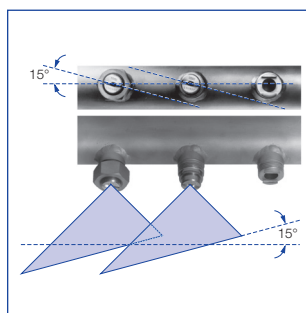
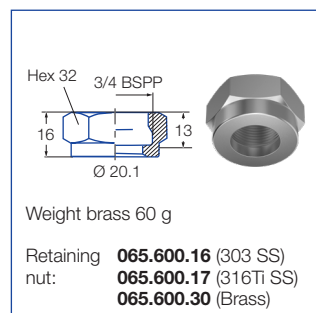
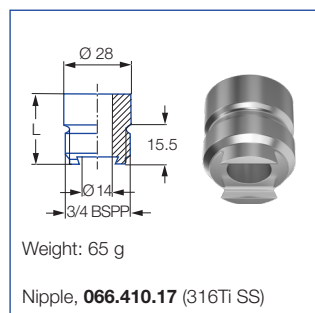
90 = rectangular liquid distribution


96 = flat jet parallel to dove tail + rectangular liquid distribution



Flat jet 15° offset against dove-tail

Accessories



Spray angle 	Ordering no.				A Ø [mm]	E Ø [mm]	V̇ [l/min]						
	Type	Mat. no.					p [bar]						
		16 303 SS	17 ¹ 316Ti SS/ 316L SS	30			0.5	1.0	2.0	[US gal./ min] at 40 psi	3.0	5.0	10.0
45°	664.723	○	○	○	3.00	2.40	3.15	4.45	6.30	1.95	7.72	9.96	14.09
	664.763	○	○	○	3.50	2.60	4.00	5.66	8.00	2.48	9.80	12.65	17.89
	664.803	○	○	○	4.00	3.00	5.00	7.07	10.00	3.10	12.25	15.81	22.36
	664.843	○	○	○	4.50	3.40	6.25	8.84	12.50	3.88	15.31	19.67	27.95
	664.883	○	○	○	5.00	3.80	8.00	11.31	16.00	4.96	19.60	25.30	35.78
	664.923	○	○	○	5.50	4.20	10.00	14.14	20.00	6.20	24.49	31.62	44.72
	664.963	○	○	○	6.00	4.40	12.50	17.68	25.00	7.75	30.62	39.53	55.90
	665.043	-	-	○	8.00	5.90	20.00	28.28	40.00	12.41	48.99	63.25	89.44
60°	664.724	○	○	○	3.00	2.10	3.15	4.45	6.30	1.95	7.72	9.96	14.09
	664.764	○	○	○	3.50	2.30	4.00	5.66	8.00	2.48	9.80	12.65	17.89
	664.804	○	○	○	4.00	2.60	5.00	7.07	10.00	3.10	12.25	15.81	22.36
	664.844	○	○	○	4.50	3.00	6.25	8.84	12.50	3.88	15.31	19.67	27.95
	664.884	○	○	○	5.00	3.40	8.00	11.31	16.00	4.96	19.60	25.30	35.78
	664.924	○	○	○	5.50	4.10	10.00	14.14	20.00	6.20	24.49	31.62	44.72
	664.964	○	○	○	6.00	4.20	12.50	17.68	25.00	7.75	30.62	39.53	55.90
	665.044	○	○	○	8.00	8.00	20.00	28.28	40.00	12.41	48.99	63.25	89.44
	665.064	○	○	○	8.00	8.00	22.50	31.84	45.00	13.96	55.15	71.20	100.69
	665.084	-	○	○	9.00	6.20	25.00	35.36	50.00	15.50	61.24	79.06	111.80
665.124	-	-	○	10.00	7.40	31.50	44.55	63.00	19.56	77.16	99.61	140.87	
90°	664.726	○	○	○	3.00	1.70	3.15	4.45	6.30	1.95	7.72	9.96	14.09
	664.766	○	○	○	3.50	1.90	4.00	5.66	8.00	2.48	9.80	12.65	17.89
	664.806	○	○	○	4.00	2.40	5.00	7.07	10.00	3.10	12.25	15.81	22.36
	664.846	○	○	○	4.50	2.40	6.25	8.84	12.50	3.88	15.31	19.67	27.95
	664.886	○	○	○	5.00	3.10	8.00	11.31	16.00	4.96	19.60	25.30	35.78
	664.926	○	○	○	5.50	3.60	10.00	14.14	20.00	6.20	24.49	31.62	44.72
	664.966	○	○	○	6.00	3.90	12.50	17.68	25.00	7.75	30.62	39.53	55.90
	665.046	-	-	○	8.00	4.90	20.00	28.28	40.00	12.41	48.99	63.25	89.44
665.126	-	-	○	10.00	6.40	31.50	44.55	63.00	19.56	77.16	99.61	140.87	
120°	664.727	○	○	○	3.00	1.60	3.15	4.45	6.30	1.95	7.72	9.96	14.09
	664.767	○	○	○	3.50	1.70	4.00	5.66	8.00	2.48	9.80	12.65	17.89
	664.807	○	○	○	4.00	2.00	5.00	7.07	10.00	3.10	12.25	15.81	22.36
	664.847	○	○	○	4.50	2.30	6.25	8.84	12.50	3.88	15.31	19.67	27.95
	664.887	○	○	○	5.00	2.60	8.00	11.31	16.00	4.96	19.60	25.30	35.78
	664.927	○	○	○	5.50	2.90	10.00	14.14	20.00	6.20	24.49	31.62	44.72
	664.967	-	-	○	6.00	3.20	12.50	17.68	25.00	7.75	30.62	39.53	55.90
	665.047	-	-	○	8.00	4.40	20.00	28.28	40.00	12.41	48.99	63.25	89.44

¹We reserve the right to deliver 316Ti SS oder 316L SS under the material no. 17.

A = equivalent bore diameter · E = narrowest free cross section

* differing spray pattern

Subject to technical modifications.

Example of ordering: Type 664.724 + Material no. 16 = Ordering no. 664.724.16

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

