

Flat fan dovetail nozzles

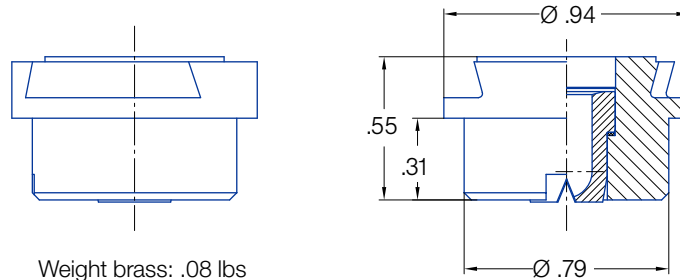
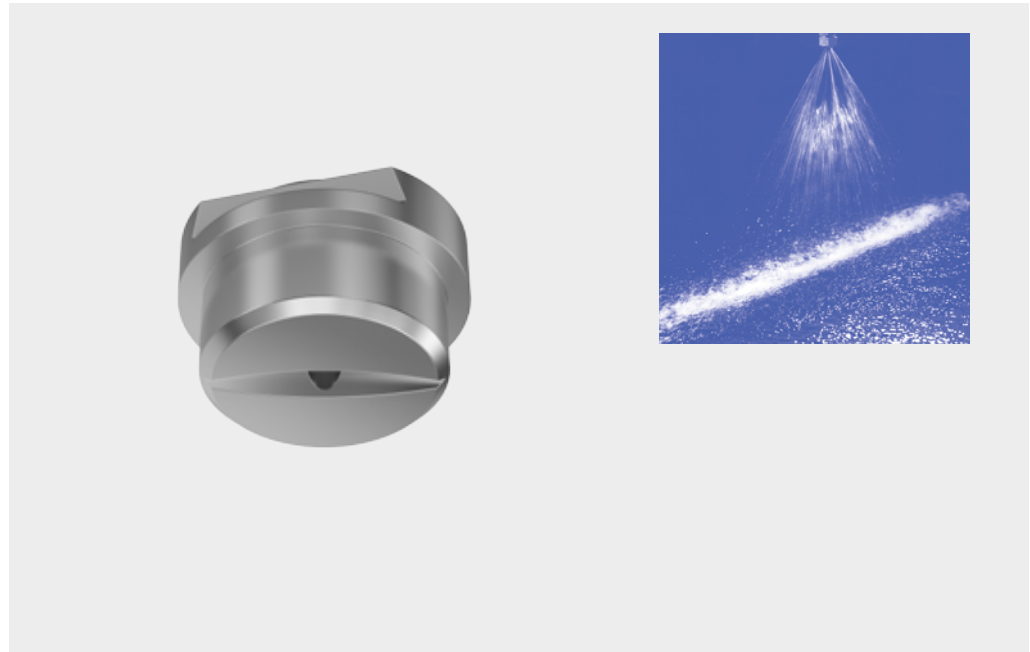
Series 664/665

The 664 and 665 series nozzles come with the conventional, automatic self aligning dovetail connection which ensures that every nozzle will always be installed under the correct spray offset angle towards the roll center line.

This nozzle family has become an industrial standard solution for roll cooling applications.

All tips have an automatically built in 15° offset angle if the welding nipple is welded in line with the centre line of the spray header. Any other offset angle has to be compensated for by welding the nipple under a different angle (minus the 15° inbuilt offset angle).

The spray has a parabolic liquid distribution which is ideal for a multi nozzle header arrangement.



Accessories

Weight: .14 lbs
 Welding: **066.410.17** (316 SS)
 Nipple: **066.410.03** (1.0570)

Weight brass .13 lbs
 Retaining nut: **065.600.11** (AISI 430 F)
065.600.16 (303 SS)
065.600.17 (316 SS)
065.600.30 (brass)

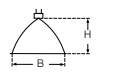
Other offset angles are available on request

Technical data and ordering data for accessories see page 18.

Ordering no.				Material no.			Equivalent Orifice diam. (in.)	Flow Rate (Gallons Per Minute)						
Type				303 SS	316 SS	Brass		10 psi	20 psi	liters per minute 2 bar	40 psi	60 psi	80 psi	100 psi
Spray Angle														
20°	30°	45°	60°	16	17	30								
664.721	664.722	664.723	664.724	○	○	○	.08-.10	0.98	1.38	6.3	1.95	2.39	2.76	3.09
664.761	664.762	664.763	664.764	○	○	○	.09-.11	1.24	1.76	8.0	2.48	3.04	3.51	3.92
664.801	664.802	664.803	664.804	○	○	○	.10-.13	1.55	2.19	10.0	3.10	3.80	4.39	4.91
664.841	664.842	664.843	664.844	○	○	○	.12-.14	1.94	2.74	12.5	3.88	4.75	5.49	6.13
664.881	664.882	664.883	664.884	○	○	○	.13-.16	2.48	3.51	16.0	4.96	6.08	7.02	7.85
664.921	664.922	664.923	664.924	○	○	○	.16-.17	3.10	4.39	20.0	6.21	7.60	8.78	9.81
664.941	664.942	664.943	664.944	○	○	○	.18-.20	3.48	4.91	22.4	6.95	8.51	9.83	10.99
664.961	664.962	664.963	664.964	○	○	○	.17-.21	3.88	5.49	25.0	7.76	9.50	10.97	12.27
664.981	664.982	664.983	664.984	○	○	○	.17-.20	4.34	6.14	28.0	8.69	10.64	12.29	13.74
665.001	665.002	665.003	665.004	○	○	○	.19-.22	4.89	6.91	31.5	9.77	11.97	13.82	15.45
665.011	665.012	665.013	665.014	○	○	○	.19-.23	5.20	7.35	33.5	10.39	12.73	14.70	16.44
665.041	665.042	665.043	665.044	○	○	○	.22-.26	6.21	8.78	40.0	12.41	15.20	17.55	19.62
665.061	665.062	665.063	665.064	○	○	○	.23-.26	6.98	9.87	45.0	13.96	17.10	19.75	22.08
665.081	665.082	665.083	665.084	○	○	○	.26-.29	7.76	10.97	50.0	15.51	19.00	21.94	24.53
665.121	665.122	665.123	665.124	○	○	○	.29-.33	9.77	13.82	63.0	19.55	23.94	27.65	30.91
665.161	665.162	665.163	665.164	○	○	○	.33	12.41	17.55	80.0	24.82	30.40	35.11	39.25
665.181	665.182	665.183	665.184	○	○	○	.35-.41	13.96	19.75	90.0	27.93	34.20	39.49	44.15
665.201	665.202	665.203	665.204	○	○	○	.38-.41	15.51	21.94	100.0	31.03	38.00	43.88	49.06

Example Type + Material no. = Ordering no.
for ordering: 664.721 + 17 = 664.721.17

Subject to technical modifications

Spray width [B] at p=45 psi		
	H	H
	10 in	20 in
664.721 - 664.921	3.94	7.87
664.941 - 665.201	4.53	8.27
664.722 - 664.962	5.91	11.81
664.982 - 665.202	6.3	12.20
664.723 - 664.963	8.66	17.32
664.983 - 665.203	9.84	19.29
664.724 - 664.964	12.99	24.8
665.984 - 665.204	13.39	25.2

Conversion formula for the above series: $V_2 = V_1 \sqrt{\frac{P_2}{P_1}}$