

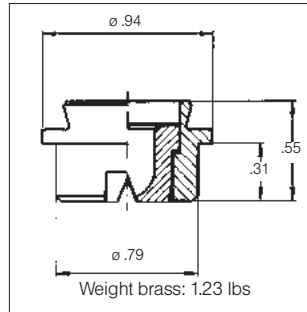
FLAT FAN DOVETAILED NOZZLES

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.



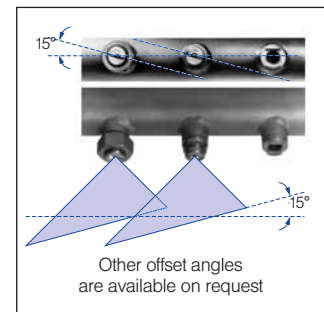
Nozzle Range	H	
	10 in	20 in
664.721 - 664.921	3.94	7.87
664.941 - 665.201	4.53	8.27
664.722 - 664.962	5.91	11.81
664.982 - 665.202	6.3	12.20
664.723 - 664.963	8.66	17.32
664.983 - 665.203	9.84	19.29
664.724 - 664.964	12.99	24.8
665.984 - 665.204	13.39	25.2

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

Accessories



Technical data and ordering data for accessories see page 13.

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