

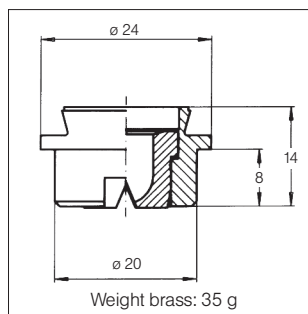
FLAT FAN DOVETAIL NOZZLES

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.



Spray width [B] at p=3 bar		
B	H	H
	250 mm	500 mm
664.721 - 664.921	100	200
664.941 - 665.201	115	210
664.722 - 664.962	150	300
664.982 - 665.202	160	310
664.723 - 664.963	220	440
664.983 - 665.203	250	490
664.724 - 664.964	330	630
665.984 - 665.204	340	640

Ordering no.				Mat. no.			E Ø [mm]	V [l/min]							
Type				16 303 SS	17 316 SS	30 Brass		p [bar]							
↘ 20°	↘ 30°	↘ 45°	↘ 60°					0,5	1,0	2,0	40° psi	3,0	5,0	7,0	10,0
664.721	664.722	664.723	664.724	○	○	○	2,1 - 2,5	3,15	4,45	6,30	1,95	7,72	9,96	11,79	14,09
664.761	664.762	664.763	664.764	○	○	○	2,3 - 2,8	4,00	5,66	8,00	2,48	9,80	12,65	14,97	17,89
664.801	664.802	664.803	664.804	○	○	○	2,6 - 3,2	5,00	7,07	10,00	3,10	12,25	15,81	18,71	22,36
664.841	664.842	664.843	664.844	○	○	○	3,0 - 3,6	6,25	8,84	12,50	3,88	15,31	19,67	23,39	27,95
664.881	664.882	664.883	664.884	○	○	○	3,4 - 4,0	8,00	11,31	16,00	4,96	19,60	25,30	29,93	35,78
664.921	664.922	664.923	664.924	○	○	○	4,1 - 4,4	10,00	14,14	20,00	6,20	24,49	31,62	37,42	44,72
664.941	664.942	664.943	664.944	○	○	○	4,6 - 5,0	11,20	15,84	22,40	6,94	27,44	35,42	41,91	50,09
664.961	664.962	664.963	664.964	○	○	○	4,2 - 5,3	12,50	17,68	25,00	7,75	30,62	39,53	46,77	55,90
664.981	664.982	664.983	664.984	○	○	○	4,2 - 5,1	14,00	19,80	28,00	8,68	34,29	44,27	52,38	62,61
665.001	665.002	665.003	665.004	○	○	○	4,8 - 5,6	15,75	22,27	31,50	9,76	38,57	49,80	58,92	70,43
665.011	665.012	665.013	665.014	○	○	○	4,9 - 5,8	16,75	23,69	33,50	10,40	41,03	52,97	62,67	74,91
665.041	665.042	665.043	665.044	○	○	○	5,5 - 6,6	20,00	28,28	40,00	12,41	48,99	63,25	74,83	89,44
665.061	665.062	665.063	665.064	○	○	○	5,8 - 6,7	22,50	31,84	45,00	13,96	55,15	71,20	84,24	100,69
665.081	665.082	665.083	665.084	○	○	○	6,6 - 7,4	25,00	35,36	50,00	15,50	61,24	79,06	93,54	111,80
665.121	665.122	665.123	665.124	○	○	○	7,4 - 8,3	31,50	44,55	63,00	19,56	77,16	99,61	117,86	140,87
665.161	665.162	665.163	665.164	○	○	○	8,3 - 8,4	40,00	56,57	80,00	24,80	97,99	126,50	149,68	178,90
665.181	665.182	665.183	665.184	○	○	○	8,9 - 10,3	28,50	63,64	90,00	27,90	110,23	142,30	168,37	201,24
665.201	665.202	665.203	665.204	○	○	○	9,6 - 10,5	50,00	70,71	100,00	31,04	122,47	158,11	187,08	223,61

E = Narrowest free cross section. * US gal/min

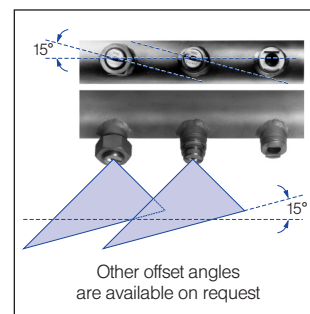
Subject to technical modifications

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

Conversional formula
for the above series:

$$\dot{V}_2 = \dot{V}_1 \cdot \sqrt{\frac{p_2}{p_1}}$$

Accessories



Technical data and ordering data for accessories see page 13.