

Flat fan nozzle with increased spray depth and dove-tail alignment

Series 600.280

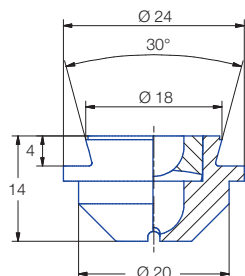
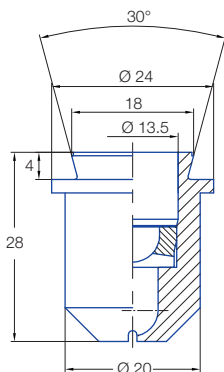
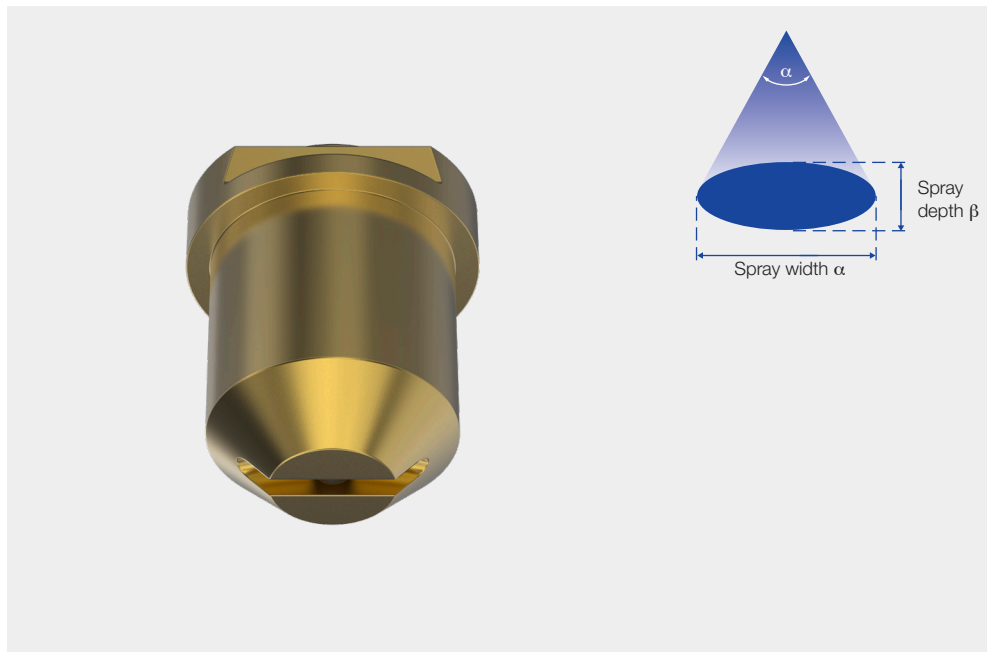
Series 600.280

Assembly with 3/4" retaining nut. Self aligning jet with dove-tail design with 0° offset angle secures correct spray position for optimal strand surface quality and easy maintenance.

- Typically with trapezoid liquid distribution
- Available in 14 mm short and in 28 mm long version

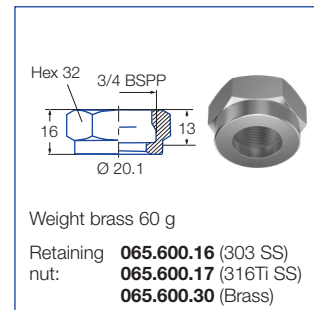
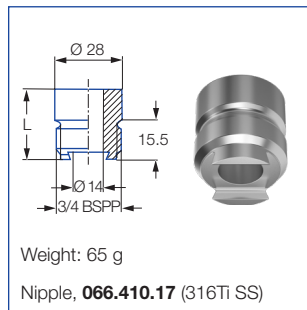
Applications:

Single and multi nozzle arrangements in segments for water only secondary cooling in bloom and slab casters. Also suitable for vertical spray positions such as narrow side cooling in slab casters or vertical spray cooling in bloom casters.



Flat jet parallel to dove-tail


Accessories



Spray angle	Ordering no.		Spray depth angle [°]	Length [mm]	Narrowest cross section [mm]	Flow rate [l/min] pressure (bar)						
	Type	Material no.				1	2	3	5	7	10	
		16 303 SS										30 Brass
60°	600.280.xx.34	○	○	12	28	3	12.0	16.6	20.1	25.6	30.0	35.5
	600.280.xx.32	○	○	15	28	3	12.0	16.6	20.1	25.6	30.0	35.5
	600.280.xx.28	○	○	20	28	2.5	8.5	11.8	14.3	18.2	21.3	25.2
	600.280.xx.29	○	○	20	28	3	11.7	16.3	19.7	25.0	29.3	34.6
	600.280.xx.30	○	○	20	28	3.6	15.0	20.7	25.1	31.9	37.4	44.2
	600.280.xx.33	○	○	25	28	4	16.0	22.2	26.8	34.1	39.9	47.2
	600.280.xx.83	○	○	40	28	1	1.3	1.8	2.1	2.7	3.2	3.7
	600.280.xx.12	○	○	40	28	1	1.9	2.6	3.1	4.0	4.7	5.5
	600.280.xx.11	○	○	40	28	1	2.1	2.9	3.5	4.5	5.3	6.2
	600.280.xx.22	○	○	40	28	2.1	4.7	6.5	7.9	10.0	11.7	13.9
600.280.xx.21	○	○	40	28	2.5	6.1	8.5	10.2	13.0	15.2	18.0	
70°	600.280.xx.17	○	○	40	28	1	1.3	1.8	2.2	2.8	3.3	3.9
	600.280.xx.15	○	○	40	28	1.1	1.9	2.6	3.1	4.0	4.7	5.5
	600.280.xx.84	○	○	40	28	1.8	3.1	4.3	5.2	6.6	7.7	9.1
75°	600.280.xx.82	○	○	15	28	1.8	5.7	7.9	9.5	12.1	14.2	16.8
	600.280.xx.16	○	○	15	28	1.7	6.1	8.5	10.2	13.0	15.2	18.0
	600.280.xx.19	○	○	30	28	1.6	3.3	4.6	5.5	7.0	8.2	9.7
	600.280.xx.26	○	○	30	28	1.7	4.1	5.7	6.9	8.8	10.3	12.2



Conversion formula for the above series: $\dot{V}_2 = \dot{V}_1 * \left(\frac{p_2}{p_1}\right)^{0.47}$ (≤ 10 bar)

Spray angle 	Ordering no.		Spray depth angle [°]	Length [mm]	Narrowest cross section [mm]	Flow rate [l/min] pressure (bar)						
	Type	Material no.				1	2	3	5	7	10	
		16 303 SS										30 Brass
80°	600.280.xx.64	○	○	20	28	1.4	2.0	2.8	3.4	4.3	5.0	6.0
	600.280.xx.74	○	○	20	28	1.5	2.3	3.1	3.8	4.8	5.6	6.6
	600.280.xx.51	○	○	25	28	1.6	10.0	13.9	16.8	21.4	25.1	29.6
	600.280.xx.42	○	○	30	14	1	2.3	3.1	3.8	4.8	5.6	6.6
90°	600.280.xx.77	○	○	20	28	1	4.5	6.2	7.6	9.6	11.2	13.3
	600.280.xx.14	○	○	20	28	1.1	4.9	6.8	8.3	10.5	12.3	14.5
	600.280.xx.08	○	○	20	28	2.2	8.5	11.8	14.3	18.2	21.3	25.2
	600.280.xx.03	○	○	20	28	2.1	9.6	13.3	16.0	20.4	23.9	28.3
	600.280.xx.05	○	○	20	28	2.5	11.6	16.1	19.5	24.8	29.0	34.4
	600.280.xx.09	○	○	20	28	2	11.7	16.3	19.7	25.0	29.3	34.6
	600.280.xx.10	○	○	20	28	2.7	15.0	20.7	25.1	31.9	37.4	44.2
	600.280.xx.62	○	○	27	28	1.6	4.6	6.4	7.7	9.8	11.5	13.6
	600.280.xx.69	○	○	27	28	2.3	7.0	9.7	11.7	14.9	17.5	20.6
	600.280.xx.68	○	○	27	28	2.95	8.5	11.8	14.3	18.2	21.3	25.2
	600.280.xx.72	○	○	27	28	2.7	12.9	17.9	21.6	27.5	32.2	38.1
	600.280.xx.76	○	○	27	28	2.7	15.1	20.9	25.2	32.1	37.6	44.5
	600.280.xx.13	○	○	30	14	1	1.3	1.8	2.1	2.7	3.2	3.7
	600.280.xx.97	○	○	30	28	1.2	1.9	2.7	3.2	4.1	4.8	5.7
	600.280.xx.92	○	○	30	14	1.2	2.0	2.7	3.3	4.2	4.9	5.8
	600.280.xx.41	○	○	30	14	1.6	3.3	4.6	5.5	7.0	8.2	9.7
	600.280.xx.95	○	○	30	28	1.7	3.3	4.6	5.5	7.0	8.2	9.7
	600.280.xx.90	○	○	30	14	1.7	3.4	4.7	5.7	7.2	8.4	10.0
	600.280.xx.27	○	○	30	28	1.9	5.1	7.0	8.5	10.8	12.7	15.0
	600.280.xx.63	○	○	30	28	2.3	5.8	8.1	9.8	12.4	14.5	17.2
	600.280.xx.45	○	○	30	28	2.3	8.3	11.4	13.8	17.6	20.6	24.4
	600.280.xx.66	○	○	30	28	2.15	11.6	16.1	19.5	24.8	29.0	34.4
	600.280.xx.24	○	○	30	40	2.15	11.6	16.1	19.5	24.8	29.0	34.4
	600.280.xx.73	○	○	35	28	2.3	7.6	10.5	12.7	16.1	18.9	22.3
	600.280.xx.81	○	○	40	28	1.7	1.9	2.7	3.2	4.1	4.8	5.7
	600.280.xx.79	○	○	40	28	1.6	3.0	4.2	5.0	6.4	7.5	8.9
	600.280.xx.80	○	○	40	28	1.7	3.9	5.4	6.5	8.3	9.7	11.5
	600.280.xx.78	○	○	40	28	2.5	7.3	10.1	12.3	15.6	18.3	21.6
100°	600.280.xx.53	○	○	15	56	2.5	11.8	16.4	19.8	25.2	29.5	34.9
	600.280.xx.44	○	○	15	28	2.7	20.0	27.8	33.6	42.7	50.0	59.1
	600.280.xx.85	○	○	25	28	1.4	4.1	5.7	6.8	8.7	10.2	12.1
	600.280.xx.50	○	○	25	28	1.6	4.9	6.8	8.3	10.5	12.3	14.5
	600.280.xx.07	○	○	25	28	2.3	11.6	16.1	19.5	24.8	29.0	34.4
	600.280.xx.88	○	○	14	14	1.2	2.0	2.7	3.3	4.2	4.9	5.8
	600.280.xx.58	○	○	30	14	1.7	3.5	4.8	5.8	7.4	8.7	10.2
	600.280.xx.57	○	○	30	14	1.8	4.8	6.7	8.1	10.3	12.1	14.3
	600.280.xx.40	○	○	30	28	1.6	5.1	7.0	8.5	10.8	12.7	15.0
	600.280.xx.56	○	○	30	14	1.9	6.1	8.5	10.2	13.0	15.2	18.0
	600.280.xx.55	○	○	30	14	2.5	7.4	10.3	12.4	15.8	18.5	21.9
	600.280.xx.36	○	○	30	14	2.6	8.9	12.4	14.9	19.0	22.3	26.3
	600.280.xx.59	○	○	40	28	2.6	7.8	10.9	13.1	16.7	19.6	23.1
	600.280.xx.35	○	○	40	28	2.6	8.8	12.2	14.8	18.8	22.0	26.0
	600.280.xx.37	○	○	40	28	2.7	14.2	19.6	23.8	30.2	35.4	41.8
	600.280.xx.23	○	○	50	28	1.85	1.9	2.6	3.1	4.0	4.7	5.5
	600.280.xx.31	○	○	50	28	1.3	3.2	4.5	5.4	6.9	8.1	9.6
	105°	600.280.xx.02	○	○	23	14	1.1	3.3	4.6	5.5	7.0	8.2
600.280.xx.00		○	○	23	14	1.3	4.7	6.5	7.9	10.0	11.7	13.9
600.280.xx.01		○	○	23	14	1.4	6.1	8.5	10.2	13.0	15.2	18.0
600.280.xx.04		○	○	23	14	1.3	7.5	10.4	12.6	16.0	18.7	22.2
600.280.xx.65		○	○	27	28	1.05	2.0	2.8	3.4	4.3	5.0	6.0
600.280.xx.67		○	○	27	28	1.4	2.9	4.0	4.9	6.2	7.3	8.6
112°	600.280.xx.43	○	○	30	28	2.4	9.3	12.9	15.6	19.8	23.2	27.4

Material 17 (316Ti/316L SS) on request

Example of ordering: Type 600.280.xx.64 + Material no. 16 = Ordering no. 600.280.16.64

Conversion formula for the above series: $\dot{V}_2 = \dot{V}_1 * \left(\frac{p_2}{p_1}\right)^{0.47}$
(≤ 10 bar)

