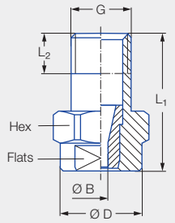
Low pressure solid stream nozzles
Series 544

Properties:
- Concentrated solid stream jet
- High impact

Applications:
- Cleaning and washing processes
- Injection
- Targeted cooling
- Pasteurization

Series 544



Code	G	Dimensions [mm]					Weight [g] (Brass)
		L_1	L_2	Ø D	Hex	Flats	
CA	1/8 BSPT	22.0	6.5	13.0	14	10	14.0
CC	1/4 BSPT	22.0	10.0	13.0	14	10	16.0

Ordering no.					Bore diameter B [mm]	V̇ water [l/min]								
Type	Mat. no.		Code			p [bar]								
	16 Stainless steel 303	30 Brass	1/8 BSPT	1/4 BSPT		0.5	1.0	2.0	3.0	**5.0**	10.0	15.0	20.0	30.0
544.110	●	●	**CA**	**CC**	0.23	0.02	0.03	0.04	0.05	**0.06**	0.08	0.10	0.12	0.15
544.160	●		**CA**	**CC**	0.33	0.03	0.04	0.06	0.07	**0.09**	0.13	0.16	0.18	0.22
544.200	●	●	**CA**	**CC**	0.39	0.05	0.07	0.10	0.12	**0.16**	0.23	0.28	0.32	0.39
544.240	●		**CA**	**CC**	0.50	0.08	0.11	0.16	0.19	**0.25**	0.35	0.43	0.50	0.61
544.280	●		**CA**	**CC**	0.63	0.13	0.18	0.25	0.31	**0.40**	0.57	0.69	0.80	0.98
544.320	●	●	**CA**	**CC**	0.80	0.20	0.28	0.40	0.49	**0.63**	0.89	1.09	1.26	1.54
544.360	●	●	**CA**	**CC**	1.05	0.32	0.45	0.63	0.77	**1.00**	1.41	1.73	2.00	2.45
544.400	●	●	**CA**	**CC**	1.30	0.50	0.71	1.00	1.22	**1.58**	2.23	2.74	3.16	3.87
544.480	●	●	**CA**	**CC**	1.33	0.80	1.13	1.60	1.96	**2.53**	3.58	4.38	5.06	6.20
544.560	●	●	**CA**	**CC**	1.65	1.25	1.77	2.50	3.06	**3.95**	5.59	6.84	7.90	9.68
544.640	●	●	**CA**	**CC**	2.09	2.00	2.83	4.00	4.90	**6.32**	8.94	10.95	12.64	15.48
544.720	●	●	**CA**	**CC**	2.66	3.15	4.45	6.30	7.71	**9.96**	14.09	17.25	19.92	24.40
544.800	●	●	**CA**	**CC**	3.30	5.00	7.07	10.00	12.25	**15.81**	22.36	27.38	31.62	38.73

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

Ordering example: Type **544.110** + Material no. **16** + Code **CA** = Ordering no. **544.110.16.CA**

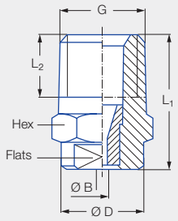
Assembly accessories can be found in Chapter 9 “Accessories”.

High pressure solid stream nozzles
Series 546

Properties:
- Concentrated solid stream jet
- High impact
- Housing 303 SS, insert: Hardened stainless steel 420F

Applications:
- Cleaning and washing processes

Series 546



G	Dimensions [mm]					Weight [g]	p_{max} [1] [bar]
	L_1	L_2	Ø D	Hex	Flats		
1/4 BSPT	22.0	10.0	13.0	14	10	18.0	approx. 700
1/4 NPT	22.0	10.0	13.0	14	10	18.0	approx. 700

[1] Applies only to operation at constant pressure.

US gal/min at 40 psi	Ordering no.			Bore diameter B [mm]	V̇ water [l/min]							
Type	Code			p [bar]								
		1/4 BSPT	1/4 NPT		40	60	**80**	100	120	150	200	300
01	**546.300.A3**	**00**	**07**	0.60	1.44	1.77	**2.04**	2.28	2.50	2.79	3.22	3.95
02	**546.360.A3**	**00**	**07**	0.84	2.88	3.53	**4.08**	4.56	5.00	5.58	6.45	7.90
025	**546.380.A3**	**00**	**07**	0.94	3.60	4.42	**5.10**	5.70	6.24	6.98	8.06	9.87
027	**546.390.A3**	**00**	**07**	0.99	3.89	4.76	**5.50**	6.15	6.74	7.53	8.70	10.65
03	**546.400.A3**	**00**	**07**	1.03	4.33	5.30	**6.12**	6.84	7.49	8.38	9.67	11.85
034	**546.410.A3**	**00**	**07**	1.07	4.90	6.00	**6.93**	7.75	8.49	9.49	10.96	13.42
035	**546.420.A3**	**00**	**07**	1.11	5.05	6.18	**7.14**	7.98	8.74	9.77	11.29	13.82
038	**546.440.A3**	**00**	**07**	1.15	5.48	6.71	**7.75**	8.66	9.49	10.61	12.25	15.00
04	**546.450.A3**	**00**	**07**	1.19	5.77	7.06	**8.16**	9.12	9.99	11.17	12.90	15.80
045	**546.470.A3**	**00**	**07**	1.26	6.49	7.95	**9.18**	10.26	11.24	12.57	14.51	17.77
05	**546.480.A3**	**00**	**07**	1.33	7.21	8.83	**10.20**	11.40	12.49	13.96	16.12	19.75
055	**546.500.A3**	**00**	**07**	1.39	7.93	9.71	**11.22**	12.54	13.74	15.36	17.73	21.72
06	**546.520.A3**	**00**	**07**	1.46	8.65	10.60	**12.24**	13.68	14.99	16.75	19.35	23.69
065	**546.530.A3**	**00**	**07**	1.51	9.37	11.48	**13.26**	14.82	16.23	18.15	20.96	25.67
070	**546.540.A3**	**00**	**07**	1.58	10.09	12.36	**14.28**	15.96	17.48	19.55	22.57	27.64
074	**546.550.A3**	**00**	**07**	1.62	10.67	13.07	**15.09**	16.87	18.48	20.66	23.86	29.22
08	**546.570.A3**	**00**	**07**	1.69	11.54	14.13	**16.31**	18.24	19.98	22.34	25.80	31.59
087	**546.580.A3**	**00**	**07**	1.76	12.54	15.36	**17.74**	19.83	21.72	24.29	28.04	34.35
089	**546.590.A3**	**00**	**07**	1.78	12.83	15.72	**18.15**	20.29	22.23	24.85	28.69	35.14
10	**546.600.A3**	**00**	**07**	1.88	14.41	17.65	**20.38**	22.79	24.97	27.91	32.23	39.47
11	**546.620.A3**	**00**	**07**	1.97	15.86	19.42	**22.42**	25.07	27.46	30.70	35.45	43.42
124	**546.640.A3**	**00**	**07**	2.09	17.87	21.89	**25.28**	28.26	30.96	34.61	39.97	48.95
131	**546.650.A3**	**00**	**07**	2.15	18.89	23.13	**26.71**	29.86	32.71	36.57	42.23	51.72
139	**546.660.A3**	**00**	**07**	2.22	20.04	24.54	**28.34**	31.68	34.70	38.80	44.80	54.87
15	**546.670.A3**	**00**	**07**	2.30	21.62	26.48	**30.58**	34.19	37.45	41.87	48.35	59.22
165	**546.690.A3**	**00**	**07**	2.41	23.79	29.13	**33.64**	37.61	41.20	46.06	53.19	65.14
174	**546.700.A3**	**00**	**07**	2.48	25.08	30.72	**35.47**	39.66	43.45	48.57	56.09	68.69
183	**546.710.A3**	**00**	**07**	2.55	26.38	32.31	**37.31**	41.71	45.69	51.08	58.99	72.24
20	**546.720.A3**	**00**	**07**	2.66	28.83	35.31	**40.78**	45.59	49.94	55.84	64.47	78.96
218	**546.740.A3**	**00**	**07**	2.77	31.43	38.49	**44.44**	49.69	54.43	60.86	70.27	86.07
25	**546.760.A3**	**00**	**07**	2.96	36.04	44.14	**50.97**	56.99	62.43	69.80	80.60	98.71
294	**546.790.A3**	**00**	**07**	3.22	42.38	51.91	**59.94**	67.01	73.41	82.07	94.77	116.06
310	**546.800.A3**	**00**	**07**	3.30	44.69	54.73	**63.20**	70.66	77.40	86.54	99.93	122.39

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

Ordering example: Type **546.300.A3** + Code **00** = Ordering no. **546.300.A3.00**

Assembly accessories can be found in Chapter 9 “Accessories”.