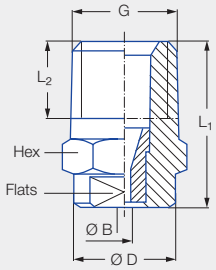
High pressure solid stream nozzles
Series 546

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

Applications:
- Cleaning and washing processes

Series 546



G	Dimensions [in]					Weight [lb]	p_{max} [1] [psi]
	L_1	L_2	Ø D	Hex	Flats		
1/4 BSPT	0.87	0.39	0.51	9/16	10	0.04	approx. 10,150
1/4 NPT	0.87	0.39	0.51	9/16	10	0.04	approx. 10,150

[1] Applies only to operation at constant pressure.

Ordering no.				Bore diameter B [in]	V̇ water [gal/min]							
		Code			p [psi]							
US gal/min at 40 psi	Type	1/4 BSPT	1/4 NPT		450	725	1000	Liters per min. 80 bar	1500	2000	3000	4500
01	546.300.A3	00	07	0.024	0.34	0.43	0.50	**2.04**	0.61	0.71	0.87	1.06
02	546.360.A3	00	07	0.033	0.67	0.85	1.00	**4.08**	1.23	1.42	1.73	2.12
025	546.380.A3	00	07	0.037	0.84	1.06	1.25	**5.10**	1.53	1.77	2.17	2.65
027	546.390.A3	00	07	0.039	0.90	1.15	1.35	**5.50**	1.65	1.91	2.34	2.86
03	546.400.A3	00	07	0.040	1.01	1.28	1.50	**6.12**	1.84	2.12	2.60	3.18
034	546.410.A3	00	07	0.042	1.14	1.45	1.70	**6.93**	2.08	2.40	2.94	3.61
035	546.420.A3	00	07	0.044	1.17	1.49	1.75	**7.14**	2.14	2.48	3.03	3.71
038	546.440.A3	00	07	0.045	1.27	1.62	1.90	**7.75**	2.33	2.69	3.29	4.03
04	546.450.A3	00	07	0.047	1.34	1.70	2.00	**8.16**	2.45	2.83	3.47	4.25
045	546.470.A3	00	07	0.050	1.51	1.92	2.25	**9.18**	2.76	3.18	3.90	4.78
05	546.480.A3	00	07	0.052	1.68	2.13	2.50	**10.20**	3.06	3.54	4.33	5.31
055	546.500.A3	00	07	0.055	1.85	2.34	2.75	**11.22**	3.37	3.89	4.77	5.84
06	546.520.A3	00	07	0.057	2.01	2.56	3.00	**12.24**	3.68	4.25	5.20	6.37
065	546.530.A3	00	07	0.059	2.18	2.77	3.25	**13.26**	3.98	4.60	5.63	6.90
070	546.540.A3	00	07	0.062	2.35	2.98	3.50	**14.28**	4.29	4.95	6.07	7.43
074	546.550.A3	00	07	0.064	2.48	3.15	3.70	**15.09**	4.53	5.23	6.41	7.85
08	546.570.A3	00	07	0.067	2.68	3.41	4.00	**16.31**	4.90	5.66	6.93	8.49
087	546.580.A3	00	07	0.069	2.92	3.70	4.35	**17.74**	5.33	6.15	7.54	9.23
089	546.590.A3	00	07	0.070	2.99	3.79	4.45	**18.15**	5.45	6.29	7.71	9.44
10	546.600.A3	00	07	0.074	3.35	4.26	5.00	**20.38**	6.12	7.07	8.66	10.60
11	546.620.A3	00	07	0.078	3.69	4.68	5.50	**22.42**	6.73	7.78	9.52	11.66
124	546.640.A3	00	07	0.082	4.16	5.28	6.20	**25.28**	7.59	8.77	10.74	13.15
131	546.650.A3	00	07	0.085	4.39	5.58	6.55	**26.71**	8.02	9.26	11.35	13.90
139	546.660.A3	00	07	0.087	4.66	5.92	6.95	**28.34**	8.51	9.83	12.04	14.74
15	546.670.A3	00	07	0.090	5.03	6.39	7.50	**30.58**	9.19	10.61	12.99	15.91
165	546.690.A3	00	07	0.095	5.53	7.02	8.25	**33.64**	10.10	11.67	14.29	17.50
174	546.700.A3	00	07	0.098	5.84	7.41	8.70	**35.47**	10.65	12.30	15.07	18.45
183	546.710.A3	00	07	0.100	6.14	7.79	9.15	**37.31**	11.21	12.94	15.85	19.41
20	546.720.A3	00	07	0.105	6.71	8.52	10.00	**40.78**	12.25	14.14	17.32	21.22
218	546.740.A3	00	07	0.109	7.31	9.28	10.90	**44.44**	13.35	15.41	18.88	23.12
25	546.760.A3	00	07	0.117	8.39	10.64	12.50	**50.97**	15.31	17.68	21.65	26.52
294	546.790.A3	00	07	0.127	9.86	12.52	14.70	**59.94**	18.00	20.79	25.46	31.18
310	546.800.A3	00	07	0.130	10.40	13.20	15.50	**63.20**	18.98	21.92	26.85	32.88

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

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

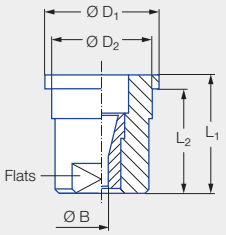
Assembly accessories can be found in Chapter 12 "Accessories".

High pressure solid stream nozzles
Series 548

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

Applications:
- Cleaning and washing processes

Series 548



Code	Dimensions [in]					Weight [lb]	p_{max} [1] [psi]
	L_1	L_2	Ø D_1	Ø D_2	Flats		
Assembly with retaining nut 3/8 BSPP	0.63	0.55	0.58	0.50	10	.03	approx. 4,350

[1] Applies only to operation at constant pressure.

Ordering no.		Bore diameter B [in]	V̇ water [gal/min]							
US gal/min at 40 psi	Type		p [psi]							
			450	725	1000	Liters per min. **80 bar**	1500	2000	3000	4500
01	548.300.A3.29	0.024	0.34	0.43	0.50	**2.04**	0.61	0.71	0.87	1.06
02	548.360.A3.29	0.033	0.67	0.85	1.00	**4.08**	1.23	1.42	1.73	2.12
025	548.380.A3.29	0.037	0.84	1.06	1.25	**5.10**	1.53	1.77	2.17	2.65
027	548.390.A3.29	0.039	0.90	1.15	1.35	**5.50**	1.65	1.91	2.34	2.86
03	548.400.A3.29	0.040	1.01	1.28	1.50	**6.12**	1.84	2.12	2.60	3.18
034	548.410.A3.29	0.042	1.14	1.45	1.70	**6.93**	2.08	2.40	2.94	3.61
035	548.420.A3.29	0.044	1.17	1.49	1.75	**7.14**	2.14	2.48	3.03	3.71
038	548.440.A3.29	0.045	1.27	1.62	1.90	**7.75**	2.33	2.69	3.29	4.03
04	548.450.A3.29	0.047	1.34	1.70	2.00	**8.16**	2.45	2.83	3.47	4.25
045	548.470.A3.29	0.050	1.51	1.92	2.25	**9.18**	2.76	3.18	3.90	4.78
05	548.480.A3.29	0.052	1.68	2.13	2.50	**10.20**	3.06	3.54	4.33	5.31
055	548.500.A3.29	0.055	1.85	2.34	2.75	**11.22**	3.37	3.89	4.77	5.84
06	548.520.A3.29	0.057	2.01	2.56	3.00	**12.24**	3.68	4.25	5.20	6.37
065	548.530.A3.29	0.059	2.18	2.77	3.25	**13.26**	3.98	4.60	5.63	6.90
070	548.540.A3.29	0.062	2.35	2.98	3.50	**14.28**	4.29	4.95	6.07	7.43
074	548.550.A3.29	0.064	2.48	3.15	3.70	**15.09**	4.53	5.23	6.41	7.85
08	548.570.A3.29	0.067	2.68	3.41	4.00	**16.31**	4.90	5.66	6.93	8.49
087	548.580.A3.29	0.069	2.92	3.70	4.35	**17.74**	5.33	6.15	7.54	9.23
089	548.590.A3.29	0.070	2.99	3.79	4.45	**18.15**	5.45	6.29	7.71	9.44
10	548.600.A3.29	0.074	3.35	4.26	5.00	**20.38**	6.12	7.07	8.66	10.60
11	548.620.A3.29	0.078	3.69	4.68	5.50	**22.42**	6.73	7.78	9.52	11.66
124	548.640.A3.29	0.082	4.16	5.28	6.20	**25.28**	7.59	8.77	10.74	13.15
131	548.650.A3.29	0.085	4.39	5.58	6.55	**26.71**	8.02	9.26	11.35	13.90
139	548.660.A3.29	0.087	4.66	5.92	6.95	**28.34**	8.51	9.83	12.04	14.74
15	548.670.A3.29	0.090	5.03	6.39	7.50	**30.58**	9.19	10.61	12.99	15.91
165	548.690.A3.29	0.095	5.53	7.02	8.25	**33.64**	10.10	11.67	14.29	17.50
174	548.700.A3.29	0.098	5.84	7.41	8.70	**35.47**	10.65	12.30	15.07	18.45
183	548.710.A3.29	0.100	6.14	7.79	9.15	**37.31**	11.21	12.94	15.85	19.41
20	548.720.A3.29	0.105	6.71	8.52	10.00	**40.78**	12.25	14.14	17.32	21.22
218	548.740.A3.29	0.109	7.31	9.28	10.90	**44.44**	13.35	15.41	18.88	23.12
25	548.760.A3.29	0.117	8.39	10.64	12.50	**50.97**	15.31	17.68	21.65	26.52
294	548.790.A3.29	0.127	9.86	12.52	14.70	**59.94**	18.00	20.79	25.46	31.18
310	548.800.A3.29	0.130	10.40	13.20	15.50	**63.20**	18.98	21.92	26.85	32.88

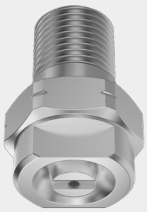
Conversion formula for this series: $\dot{V}_2 = \dot{V}_1 \cdot \sqrt{\frac{p_2}{p_1}}$

Assembly accessories can be found in Chapter 12 "Accessories".

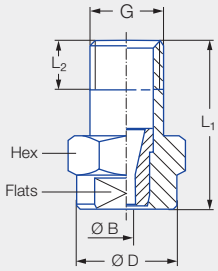
High pressure solid stream nozzles
Series 550

Properties:
- Concentrated solid stream jet
- High impact
- Housing 303, insert:
  Hardened stainless steel 1.4034 S

Applications:
- Cleaning and washing processes



Series 550



G	Dimensions [in]					Weight [lb]	p_{max} [1] [psi]
	L_1	L_2	Ø D	Hex	Flats		
1/8 BSPT	0.87	0.26	0.51	9/16	10	0.03	approx. 10,150
1/8 NPT	0.87	0.26	0.51	9/16	10	0.03	approx. 10,150

[1] Applies only to operation at constant pressure.

Ordering no.				Bore diameter B [in]	V̇ water [gal/min]							
		Code			p [psi]							
US gal/min at 40 psi	Type	1/8 BSPT	1/8 NPT		450	725	1000	Liters per min. **80 bar**	1500	2000	3000	4500
01	**550.300.A3**	**00**	**07**	0.024	0.34	0.43	0.50	**2.04**	0.61	0.71	0.87	1.06
02	**550.360.A3**	**00**	**07**	0.033	0.67	0.85	1.00	**4.08**	1.23	1.42	1.73	2.12
025	**550.380.A3**	**00**	**07**	0.037	0.84	1.06	1.25	**5.10**	1.53	1.77	2.17	2.65
027	**550.390.A3**	**00**	**07**	0.039	0.90	1.15	1.35	**5.50**	1.65	1.91	2.34	2.86
03	**550.400.A3**	**00**	**07**	0.040	1.01	1.28	1.50	**6.12**	1.84	2.12	2.60	3.18
034	**550.410.A3**	**00**	**07**	0.042	1.14	1.45	1.70	**6.93**	2.08	2.40	2.94	3.61
035	**550.420.A3**	**00**	**07**	0.044	1.17	1.49	1.75	**7.14**	2.14	2.48	3.03	3.71
038	**550.440.A3**	**00**	**07**	0.045	1.27	1.62	1.90	**7.75**	2.33	2.69	3.29	4.03
04	**550.450.A3**	**00**	**07**	0.047	1.34	1.70	2.00	**8.16**	2.45	2.83	3.47	4.25
045	**550.470.A3**	**00**	**07**	0.050	1.51	1.92	2.25	**9.18**	2.76	3.18	3.90	4.78
05	**550.480.A3**	**00**	**07**	0.052	1.68	2.13	2.50	**10.20**	3.06	3.54	4.33	5.31
055	**550.500.A3**	**00**	**07**	0.055	1.85	2.34	2.75	**11.22**	3.37	3.89	4.77	5.84
06	**550.520.A3**	**00**	**07**	0.057	2.01	2.56	3.00	**12.24**	3.68	4.25	5.20	6.37
065	**550.530.A3**	**00**	**07**	0.059	2.18	2.77	3.25	**13.26**	3.98	4.60	5.63	6.90
070	**550.540.A3**	**00**	**07**	0.062	2.35	2.98	3.50	**14.28**	4.29	4.95	6.07	7.43
074	**550.550.A3**	**00**	**07**	0.064	2.48	3.15	3.70	**15.09**	4.53	5.23	6.41	7.85
08	**550.570.A3**	**00**	**07**	0.067	2.68	3.41	4.00	**16.31**	4.90	5.66	6.93	8.49
087	**550.580.A3**	**00**	**07**	0.069	2.92	3.70	4.35	**17.74**	5.33	6.15	7.54	9.23
089	**550.590.A3**	**00**	**07**	0.070	2.99	3.79	4.45	**18.15**	5.45	6.29	7.71	9.44
10	**550.600.A3**	**00**	**07**	0.074	3.35	4.26	5.00	**20.38**	6.12	7.07	8.66	10.60
11	**550.620.A3**	**00**	**07**	0.078	3.69	4.68	5.50	**22.42**	6.73	7.78	9.52	11.66
124	**550.640.A3**	**00**	**07**	0.082	4.16	5.28	6.20	**25.28**	7.59	8.77	10.74	13.15
131	**550.650.A3**	**00**	**07**	0.085	4.39	5.58	6.55	**26.71**	8.02	9.26	11.35	13.90
139	**550.660.A3**	**00**	**07**	0.087	4.66	5.92	6.95	**28.34**	8.51	9.83	12.04	14.74
15	**550.670.A3**	**00**	**07**	0.090	5.03	6.39	7.50	**30.58**	9.19	10.61	12.99	15.91
165	**550.690.A3**	**00**	**07**	0.095	5.53	7.02	8.25	**33.64**	10.10	11.67	14.29	17.50
174	**550.700.A3**	**00**	**07**	0.098	5.84	7.41	8.70	**35.47**	10.65	12.30	15.07	18.45
183	**550.710.A3**	**00**	**07**	0.100	6.14	7.79	9.15	**37.31**	11.21	12.94	15.85	19.41
20	**550.720.A3**	**00**	**07**	0.105	6.71	8.52	10.00	**40.78**	12.25	14.14	17.32	21.22
218	**550.740.A3**	**00**	**07**	0.109	7.31	9.28	10.90	**44.44**	13.35	15.41	18.88	23.12
25	**550.760.A3**	**00**	**07**	0.117	8.39	10.64	12.50	**50.97**	15.31	17.68	21.65	26.52
294	**550.790.A3**	**00**	**07**	0.127	9.86	12.52	14.70	**59.94**	18.00	20.79	25.46	31.18
310	**550.800.A3**	**00**	**07**	0.130	10.40	13.20	15.50	**63.20**	18.98	21.92	26.85	32.88

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

Ordering example:	Type	+	Code	=	Ordering no.
	550.300.A3	+	00	=	550.300.A3.00

Assembly accessories can be found in Chapter 12 "Accessories".