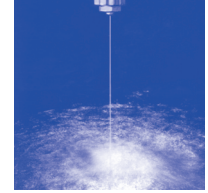




High-pressure solid stream nozzles Series 546 / 548 / 550



Punctiform, extremely tight, non-dispersing solid stream. Highest impact.

Applications:

High-pressure cleaning, cutting and separating.

Materials:

Nozzle body:

303 SS

Insert:

Hardened steel 420F SS



US gal/min. at 40 psi	Nozzle-Code			Flow rate code	B Ø [mm]	V̇ [l/min] (Tolerance ± 2%)							
	Connection					p [bar]							
	1/8	1/4	Retaining nut			40	60	80	100	120	150	200	300
01	550	546	548	300	0.60	1.44	1.77	2.04	2.28	2.50	2.79	3.22	3.95
02	550	546	548	360	0.84	2.88	3.53	4.08	4.56	5.00	5.58	6.45	7.90
025	550	546	548	380	0.94	3.60	4.42	5.10	5.70	6.24	6.98	8.06	9.87
027	550	546	548	390	0.99	3.89	4.76	5.50	6.15	6.74	7.53	8.70	10.65
03	550	546	548	400	1.03	4.33	5.30	6.12	6.84	7.49	8.38	9.67	11.85
034	550	546	548	410	1.07	4.90	6.00	6.93	7.75	8.49	9.49	10.96	13.42
035	550	546	548	420	1.11	5.05	6.18	7.14	7.98	8.74	9.77	11.29	13.82
038	550	546	548	440	1.15	5.48	6.71	7.75	8.66	9.49	10.61	12.25	15.00
04	550	546	548	450	1.19	5.77	7.06	8.16	9.12	9.99	11.17	12.90	15.80
045	550	546	548	470	1.26	6.49	7.95	9.18	10.26	11.24	12.57	14.51	17.77
05	550	546	548	480	1.33	7.21	8.83	10.20	11.40	12.49	13.96	16.12	19.75
055	550	546	548	500	1.39	7.93	9.71	11.22	12.54	13.74	15.36	17.73	21.72
06	550	546	548	520	1.46	8.65	10.60	12.24	13.68	14.99	16.75	19.35	23.69
065	550	546	548	530	1.51	9.37	11.48	13.26	14.82	16.23	18.15	20.96	25.67
070	550	546	548	540	1.58	10.09	12.36	14.28	15.96	17.48	19.55	22.57	27.64
074	550	546	548	550	1.62	10.67	13.07	15.09	16.87	18.48	20.66	23.86	29.22
08	550	546	548	570	1.69	11.54	14.13	16.31	18.24	19.98	22.34	25.80	31.59
087	550	546	548	580	1.76	12.54	15.36	17.74	19.83	21.72	24.29	28.04	34.35
089	550	546	548	590	1.78	12.83	15.72	18.15	20.29	22.23	24.85	28.69	35.14
10	550	546	548	600	1.88	14.41	17.65	20.38	22.79	24.97	27.91	32.23	39.47
11	550	546	548	620	1.97	15.86	19.42	22.42	25.07	27.46	30.70	35.45	43.42
124	550	546	548	640	2.09	17.87	21.89	25.28	28.26	30.96	34.61	39.97	48.95
131	550	546	548	650	2.15	18.89	23.13	26.71	29.86	32.71	36.57	42.23	51.72
139	550	546	548	660	2.22	20.04	24.54	28.34	31.68	34.70	38.80	44.80	54.87
15	550	546	548	670	2.30	21.62	26.48	30.58	34.19	37.45	41.87	48.35	59.22
165	550	546	548	690	2.41	23.79	29.13	33.64	37.61	41.20	46.06	53.19	65.14
174	550	546	548	700	2.48	25.08	30.72	35.47	39.66	43.45	48.57	56.09	68.69
183	550	546	548	710	2.55	26.38	32.31	37.31	41.71	45.69	51.08	58.99	72.24
20	550	546	548	720	2.66	28.83	35.31	40.78	45.59	49.94	55.84	64.47	78.96
218	550	546	548	740	2.77	31.43	38.49	44.44	49.69	54.43	60.86	70.27	86.07
25	550	546	548	760	2.96	36.04	44.14	50.97	56.99	62.43	69.80	80.60	98.71
294	550	546	548	790	3.22	42.38	51.91	59.94	67.01	73.41	82.07	94.77	116.06
310	550	546	548	800	3.30	44.69	54.73	63.20	70.66	77.40	86.54	99.93	122.39

B = Bore diameter

Connection code	Connection	p _{max} * [bar]
A3.00	BSPT	ca. 700
A3.07	NPT	ca. 700
A3.29	Lock nut	ca. 300

* Only valid for operation at constant pressure

Example for ordering: Nozzle code 550 + Flow rate code 360 + Connection code A3.07 = Ordering no. 550.360.A3.07 (Solid stream; 4.52 l/min. at 100 bar; 1/8 NPT)

Conversion formula for the above series: $\dot{V}_2 = \dot{V}_1 * \sqrt{\frac{p_2}{p_1}}$

