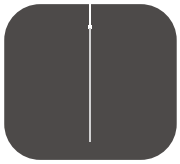
Nozzle Features

The TS series high-pressure trim nozzles are used to precisely trim the edge of paper.

The spray pattern is a solid stream needle jet.

This series is available with optional orifice material for high-pressure applications and strainers can also be fitted to reduce nozzle clogging.



Ceramic Insert

Performance Data

NOZZLE THREAD CONN.	NOZZLE CODE	OUTLET BORE DIA.	FLOW RATES (LPM @ BarG)							
		(mm)	7.0	10.0	20.0	30.0	40.0	50.0	70.0	100.0
1/8	TSCR15	0.38	0.17	0.21	0.29	0.36	0.41	0.46	0.54	0.65
	TSCR20	0.51	0.31	0.37	0.52	0.63	0.73	0.82	0.96	1.20
	TSCR25	0.64	0.48	0.57	0.81	0.99	1.10	1.30	1.50	1.80
	TSCR30	0.76	0.69	0.82	1.20	1.40	1.60	1.80	2.20	2.60
	TSCR35	0.89	0.93	1.10	1.60	1.90	2.20	2.50	3.00	3.50
	TSCR40	1.0	1.20	1.50	2.10	2.50	2.90	3.30	3.90	4.60
	TSCR45	1.1	1.50	1.90	2.60	3.20	3.70	4.10	4.90	5.80

Tungsten Insert

Performance Data

NOZZLE THREAD CONN.	NOZZLE CODE	OUTLET BORE DIA.	FLOW RATES (LPM @ BarG)							
		(mm)	7.0	10.0	20.0	30.0	40.0	50.0	70.0	100.0
1/8	TSTC15	0.38	0.17	0.21	0.29	0.36	0.41	0.46	0.54	0.65
	TSTC20	0.51	0.31	0.37	0.52	0.63	0.73	0.82	0.96	1.20
	TSTC25	0.64	0.48	0.57	0.81	0.99	1.10	1.30	1.50	1.80
	TSTC30	0.76	0.69	0.82	1.20	1.40	1.60	1.80	2.20	2.60
	TSTC35	0.89	0.93	1.10	1.60	1.90	2.20	2.50	3.00	3.50
	TSTC40	1.0	1.20	1.50	2.10	2.50	2.90	3.30	3.90	4.60
	TSTC45	1.1	1.50	1.90	2.60	3.20	3.70	4.10	4.90	5.80

Ruby Insert

Performance Data

NOZZLE THREAD CONN.	NOZZLE CODE	OUTLET BORE DIA.	FLOW RATES (LPM @ BarG)							
		(mm)	7.0	10.0	20.0	30.0	40.0	50.0	70.0	100.0
1/8	TSRB15	0.38	0.17	0.21	0.29	0.36	0.41	0.46	0.54	0.65
	TSRB20	0.51	0.31	0.37	0.52	0.63	0.73	0.82	0.96	1.20
	TSRB25	0.64	0.48	0.57	0.81	0.99	1.10	1.30	1.50	1.80
	TSRB30	0.76	0.69	0.82	1.20	1.40	1.60	1.80	2.20	2.60
	TSRB35	0.89	0.93	1.10	1.60	1.90	2.20	2.50	3.00	3.50
	TSRB40	1.0	1.20	1.50	2.10	2.50	2.90	3.30	3.90	4.60
	TSRB45	1.1	1.50	1.90	2.60	3.20	3.70	4.10	4.90	5.80

Applications

- High Impact Jetting
- Paper Edge Trimming
- Screen Washing
- Tissue Edge Trimming

Ordering Example

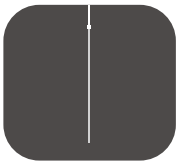
- 1/8-TSRB-SS-06

Available Materials

- Body - Brass & 316ss

Nozzle Features

The DSN series high-pressure disc shower nozzles are only available in a solid stream spray pattern. The nozzles produce a high-velocity jet for high-impact cleaning of equipment.



2999
316L Body
c/w Ceramic Insert

3999
316L Body
c/w Ruby Insert

4999
316L Low Profile Body
c/w Ruby Insert

5999
316L Low Profile Body
c/w O-ring & Ruby Insert

Performance Data

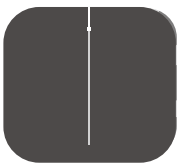
NOZZLE CODE				OUTLET BORE DIA.	FLOW RATES (LPM @ BarG)						
2999	3999	4999	5999	(mm)	1.0	3.0	5.0	7.0	12.0	20.0	48.0
●	●	●	●	0.5	0.25	0.36	0.46	0.54	0.72	0.92	1.4
●	●	●	●	0.6	0.36	0.51	0.65	0.78	1.0	1.3	2.0
●	●	●	●	0.7	0.45	0.58	0.74	0.85	1.1	1.5	2.2
●	●	●	●	0.8	0.52	0.63	0.82	0.96	1.2	1.6	2.4
●	●	●	●	0.9	0.59	0.81	1.0	1.2	1.6	2.0	3.2
●	●	●	●	1.0	0.64	0.91	1.2	1.4	1.8	2.3	3.6
●	●	●	●	1.2	0.92	1.3	1.7	2.0	2.6	3.4	5.2

Nozzle Features

The TSZ series threaded high-pressure shower nozzles are only available in a solid stream spray pattern.

The nozzles produce a high-velocity jet for high-impact cleaning and are an ideal choice for brush and brushless spray bars.

The long and extended models sit higher in the spray bar in order to reduce the possibility of clogging.



4444
316L Short Body
c/w Ceramic Insert

5444
316L Long Body
c/w Ceramic Insert

6444
316L Ext. Body
c/w Ceramic Insert

7444
316L Short Body
c/w Ruby Insert

8444
316L Long Body
c/w Ruby Insert

9444
316L Ext. Body
c/w Ruby Insert

Performance Data

NOZZLE CODE						OUTLET BORE DIA.	FLOW RATES (LPM @ BarG)						
4444	5444	6444	7444	8444	9444	(mm)	1.5	3.0	5.0	7.0	12.0	20.0	48.0
●	●	●	●	●	●	0.7	0.45	0.58	0.74	0.85	1.1	1.5	2.2
●	●	●	●	●	●	0.8	0.52	0.63	0.82	0.96	1.2	1.6	2.4
●	●	●	●	●	●	0.9	0.59	0.81	1.0	1.2	1.6	2.0	3.2
●	●	●	●	●	●	1.0	0.64	0.91	1.2	1.4	1.8	2.3	3.6
●	●	●	●	●	●	1.2	0.92	1.3	1.7	2.0	2.6	3.4	5.2

Applications

- High Pressure Felt Cleaning
- High Pressure Wire Cleaning
- Cleaning of Suction Rolls

Ordering Example

- 1/4-TSZ-5444-07

Available Materials

- Body 316ss

DSS SERIES - SHOWER NOZZLE

Nozzle Features

The DSS series nozzle is specially designed for brush type showers.
This series is available in spray angles of 0°, 30°, 60° and 75°.

Performance Data

NOZZLE THREAD CONN.				NOZZLE CODE	OUTLET BORE DIA.	FLOW RATES (LPM @ BarG)						
0°	30°	60°	75°		(mm)	1.5	3.0	5.0	7.0	12.0	20.0	48.0
●				DSS03	0.3	0.11	0.16	0.20	0.24	0.32	0.19	0.64
●				DSS04	0.4	0.20	0.28	0.35	0.42	0.56	0.71	1.12
●				DSS05	0.5	0.25	0.36	0.46	0.54	0.72	0.92	1.44
●				DSS06	0.6	0.36	0.51	0.65	0.78	1.02	1.30	2.04
●				DSS08	0.8	0.42	0.59	0.76	0.97	1.18	1.52	2.36
●	●	●	●	DSS10	1.0	0.64	0.91	1.15	1.40	1.82	2.30	3.64
●	●	●	●	DSS12	1.2	0.92	1.30	1.70	2.00	2.60	3.40	5.20
●	●	●	●	DSS15	1.5	1.20	1.70	2.20	2.60	3.40	4.40	6.80
●	●	●	●	DSS18	1.8	1.70	2.40	3.10	3.70	4.80	6.20	9.60
●	●	●	●	DSS20	2.0	2.20	3.10	4.10	4.80	6.20	8.10	12.40
●	●	●	●	DSS22	2.2	2.80	4.00	5.20	6.20	8.00	10.4	16.0
●	●	●	●	DSS25	2.5	3.50	4.90	6.30	7.50	9.80	12.6	19.6
●	●	●	●	DSS28	2.8	4.50	6.30	8.20	9.70	12.6	16.4	25.2
●	●	●	●	DSS30	3.0	5.50	7.80	10.0	11.9	15.6	20.0	31.2
	●	●	●	DSS35	3.5	7.20	10.1	13.0	15.5	20.2	26.0	40.4
	●	●	●	DSS40	4.0	8.80	12.4	16.0	18.9	24.8	32.0	37.8
	●	●	●	DSS45	4.5	11.3	15.9	20.5	24.0	31.8	41.0	63.6
	●	●	●	DSS50	5.0	13.7	19.4	25.0	30.0	38.8	50.0	77.6
	●	●	●	DSS60	6.0	22.0	31.0	40.0	47.0	62.0	80.0	124.0
	●	●	●	DSS70	7.0	28.0	39.0	50.5	60.0	78.0	101.0	156.0
	●	●	●	DSS80	8.0	35.0	49.0	63.0	75.0	98.0	126.0	196.0

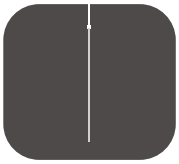
SLSS SERIES - SHOWER NOZZLE

Nozzle Features

The SLSS series of high-pressure disc shower nozzles are only available in a solid stream spray pattern.

The nozzle thread connection is 9/16”-24 UNEF.

This series produces a high velocity jet for high impact cleaning of equipment.



Performance Data

SPRAY ANGLE	NOZZLE CODE	OUTLET BORE DIA.	FLOW RATES (LPM @ BarG)					
0°		(mm)	3.0	5.0	7.0	12.0	20.0	48.0
●	SS916-35	0.35	0.12	0.15	0.17	0.24	0.30	0.48
●	SS916-70	0.70	0.42	0.54	0.63	0.84	1.08	1.68
●	SS916-85	0.85	0.62	0.81	0.95	1.24	1.62	2.48
●	SS916-100	1.00	0.89	1.1	1.40	1.78	2.20	3.56
●	SS916-140	1.40	1.60	2.1	2.40	3.20	4.20	6.40
●	SS916-180	1.80	2.70	3.5	4.20	5.40	7.00	10.80
●	SS916-240	2.40	4.50	5.9	7.00	9.00	11.80	18.00
●	SS916-320	3.20	7.30	9.6	11.00	14.60	19.20	29.20

Applications

- High Pressure Felt Cleaning
- High Pressure Wire Cleaning
- Cleaning of Suction Rolls

Ordering Example

- SL-SS916-140

Available Materials

- 316L

TD SERIES - FLAT FAN NOZZLE

Nozzle Features

The TD series low profile disc nozzles are available in both threaded and non-threaded versions.

The nozzles produce a flat fan spray pattern ranging from 25° to 90° angles.

This series of disc nozzles are an ideal choice where space restrictions are present. By tapping the wall of the pipe or tube to 5/8"-18 thread, the nozzle can be easily fitted. The two locating holes on the disc face allow tightening.

Performance Data

SPRAY ANGLE													NOZZLE CODE	OUTLET BORE DIA.	FLOW RATES (LPM @ BarG)							
25°	35°	40°	43°	50°	55°	58°	60°	65°	68°	70°	80°	90°		(mm)	0.5	1.0	2.0	3.0	5.0	7.0	10.0	25.0
	•											•	5	0.79	0.26	0.37	0.52	0.64	0.82	0.97	1.16	1.84
	•									•			7	1.0	0.37	0.52	0.74	0.91	1.17	1.38	1.65	2.62
	•										•		10	1.2	0.50	0.71	1.00	1.22	1.58	1.87	2.24	3.54
	•			•									11	1.2	0.55	0.78	1.10	1.35	1.74	2.06	2.46	3.89
	•				•		•	•			•	•	17	1.6	0.85	1.20	1.70	2.08	2.69	3.18	3.80	6.01
	•		•		•						•		26	1.9	1.30	1.84	2.60	3.18	4.11	4.86	5.81	9.19
	•										•		27	1.9	1.35	1.91	2.70	3.31	4.27	5.05	6.04	9.55
•	•												32	2.0	1.60	2.26	3.20	3.92	5.06	5.99	7.16	11.31
	•		•					•			•	•	42	2.4	2.10	2.97	4.20	5.14	6.64	7.86	9.39	14.85
	•							•					61	2,8	3.05	4.31	6.10	7.47	9.64	11.41	13.64	21.57
	•			•		•			•		•		77	3.2	3.85	5.44	7.70	9.43	12.17	14.41	17.22	27.22
	•			•		•		•			•		106	3.6	5.30	7.50	10.60	12.98	16.76	19.83	23.70	37.48
	•			•									119	3.9	5.95	8.41	11.90	14.57	18.82	22.26	26.61	42.07
	•	•							•		•		129	4.0	6.45	9.12	12.90	15.80	20.40	24.13	28.85	45.61
	•	•											151	4.7	7.55	10.68	15.10	18.49	23.88	28.25	33.76	53.39
	•							•					161	4.7	8.05	11.38	16.10	19.72	25.46	30.12	36.00	56.92
	•								•				210	5.2	10.50	14.85	21.00	25.72	33.20	39.29	46.96	74.25
	•	•											220	5.3	11.00	15.56	22.00	26.94	34.79	41.16	49.19	77.78
	•	•						•	•				230	5.5	11.50	16.26	23.00	28.17	36.37	43.03	51.43	81.32
	•												260	6.4	13.00	18.38	26.00	31.84	41.11	48.64	58.14	91.92
	•	•											270	6.4	13.50	19.09	27.00	33.07	42.69	50.51	60.37	95.46

NTD SERIES - FLAT FAN NOZZLE

Nozzle Features

The NTD series non-threaded low profile disc nozzles produce a flat fan spray pattern ranging from 35° to 90° angles.

This series of disc nozzles are an ideal choice for where space restrictions are present. The nozzle is housed in a threaded or welded body and the retaining cap is needed in order to secure the disc.

Performance Data

SPRAY ANGLE									NOZZLE CODE	OUTLET BORE DIA.	FLOW RATES (LPM @ BarG)							
35°	45°	55°	58°	65°	68°	70°	80°	90°		(mm)	0.5	1.0	2.0	3.0	3.0	3.0	3.0	3.0
		•		•		•		•	4	0.62	0.19	0.27	0.38	0.47	0.60	0.71	0.85	1.34
•									6	0.76	0.30	0.42	0.59	0.72	0.93	1.10	1.32	2.09
•	•			•			•	•	9	0.93	0.47	0.66	0.93	1.14	1.47	1.74	2.08	3.29
•			•		•		•		17	1.25	0.85	1.20	1.70	2.08	2.69	3.18	3.80	6.01
			•				•		38	1.87	1.90	2.69	3.80	4.65	6.01	7.11	8.50	13.44
•			•						50	2.2	2.50	3.54	5.00	6.12	7.91	9.35	11.18	17.68

Applications

- Filter Cleaning
- Screen Washing
- Wire & Felt Cleaning
- Conveyor Washing

Ordering Example

- 5/8-TD-SS-6817

Available Materials

- 303ss, 316ss
  - Other materials available on request.

Nozzle Features

The SP series spray nozzles provide a self cleaning purge of the orifice.

When the nozzle starts to clog, the spring loaded piston retracts in order to purge the solids from the orifice.

This nozzle is suitable in applications where there is a high percentage of solids in liquid.

NOZZLE TYPE	THREAD CONN.	LENGTH (mm)
700	1-1/8 x 20 UNEF	41.0
800	28 x 1.5 UNEF	36.0
900	3/4 x 20 UNEF	31.0

Performance Data

SERIES			SPRAY ANGLE	NOZZLE CODE	FLOW RATES (LPM @ BarG)					
700	800	900			1.5	3.0	5.0	7.0	10.0	15.0
●	●	●	0°	4	0.03	0.05	0.06	0.07	0.09	0.11
●	●	●		8	0.04	0.10	0.13	0.16	0.19	0.23
●	●	●		17	0.15	0.21	0.27	0.32	0.38	0.47
●	●	●		23	0.20	0.28	0.36	0.42	0.50	0.62
●	●	●		32	0.28	0.39	0.51	0.60	0.72	0.88
●	●	●		55	0.47	0.67	0.87	1.00	1.20	1.50
●	●	●		64	0.56	0.79	1.00	1.20	1.40	1.80
●	●	●		81	0.70	0.99	1.30	1.50	1.80	2.20
●	●	●		100	0.89	1.30	1.60	1.90	2.30	2.80
●	●	●		140	1.20	1.70	2.20	2.60	3.10	3.80
●	●	●		160	1.40	2.00	2.50	3.00	3.60	4.40
●	●	●		190	1.70	2.40	3.10	3.60	4.30	5.30
●	●	●		260	2.20	3.20	4.10	4.80	5.80	7.10
●	●	●		320	2.80	3.90	5.10	6.00	7.20	8.80
●	●	●	15°	19	1.70	2.40	3.10	3.60	4.30	5.30
●	●	●	30°	16	1.40	2.00	2.50	3.00	3.60	4.40
●	●	●		42	3.60	5.10	6.60	7.80	9.40	11.5
●	●	●		45	3.90	5.50	7.10	8.40	10.1	12.4
●	●	●		129	11.2	15.8	20.0	24.0	29.0	35.0
●	●	●	40	39	3.30	4.70	6.10	7.20	8.60	10.6
●	●	●		42	3.60	5.10	6.60	7.80	9.40	11.5
●	●	●		45	3.90	5.50	7.10	8.40	10.1	12.4
●	●	●		64	5.60	7.90	10.2	12.1	14.4	17.7
●	●	●		103	8.90	12.6	16.3	19.3	23.0	28.0
●	●	●		145	12.6	17.8	23.0	27.0	32.0	40.0
●	●	●	45°	52	4.50	6.30	8.20	9.60	11.5	14.1
●	●	●		81	7.00	9.90	12.7	15.1	18.0	22.0
●	●	●		135	11.7	16.6	21.0	25.0	30.0	37.0
●	●	●	50°	103	8.90	12.6	16.3	19.3	23.0	28.0
●	●	●	60°	52	4.50	6.30	8.20	9.60	11.5	14.1
●	●	●		100	8.70	12.2	15.8	18.7	22.0	27.0
●	●	●		122	10.6	15.0	19.4	23.0	27.0	34.0
●	●	●	80°	10	0.84	1.20	1.50	1.80	2.20	2.60
●	●	●		16	1.40	2.00	2.50	3.00	3.60	4.40
●	●	●		35	3.10	4.30	5.60	6.60	7.90	9.70
●	●	●		61	5.30	7.50	9.70	11.5	13.7	16.8
●	●	●		97	8.40	11.8	15.3	18.1	22.0	26.0
●	●	●		116	10.0	14.2	18.3	22.0	26.0	32.0
●	●	●		148	12.8	18.2	23.0	28.0	33.0	41.0
●	●	●	100°	35	3.10	4.30	5.60	6.60	7.90	9.70
●	●	●		64	5.60	7.90	10.2	12.1	14.4	17.7
●	●	●	120°	26	2.20	3.20	4.10	4.80	5.80	7.10
●	●	●	130°	52	4.50	6.30	8.20	9.60	11.5	14.1

Applications

- Low Pressure Filter Cleaning
- Foam Suppression

Ordering Example

- 3/4-SP-316SS-8061

Available Materials

- 316ss