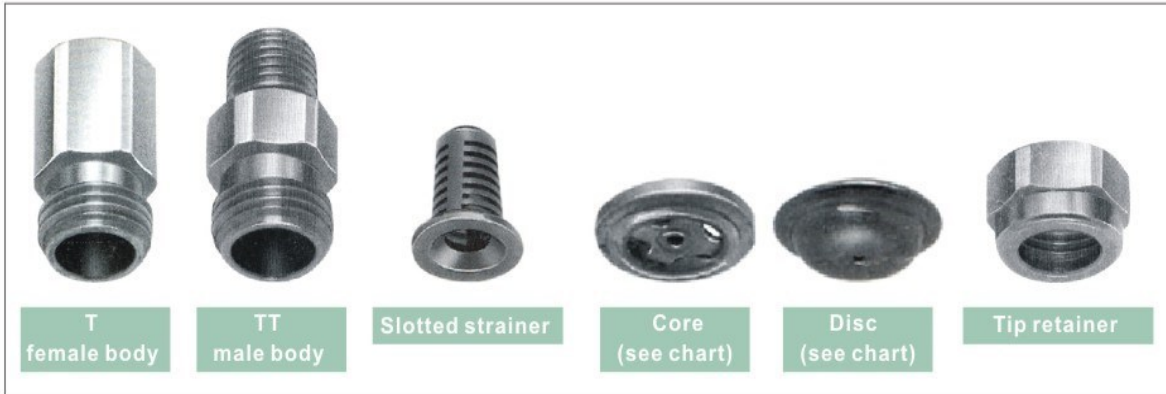


## TD series combined full cone nozzles



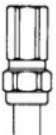
### DESIGN FEATURES

The D series disc and core type full cone nozzles provide a finely atomized uniform spray pattern.

They feature a disc and core type construction in stainless steel ,brass or tungsten carbide for excellent wear resistance .

Complete nozzle assemblies include a nozzle body and tip retainer, slotted strainer , core and orifice disc.

### DIMENSIONS & WEIGHTS

	Nozzle type	Max. Length (mm)	Max.Hex. (mm)	Weight (g)
	1/4LTD+D	36.5	20.6	60
1/4WTD+D	38	20.6	60	

### COMMON APPLIATIONS

- Spraying wettable powders and abrasive liquids
- Dust suppression in processing coal ,ores ,gravel
- Scrubbing and washing of gases

### ORDERING INFORMATION

1/4LTD1-13 — SS — D1 — 13 — HSS  
 ↓                      ↓                      ↓                      ↓                      ↓  
 Nozzle type    Body material code    Orifice Disc No.    Core No.    Core material

**PERFORMANCE DATA**

Spray nozzle No.		Orifice Disc No.	Core No.	Orifice Diam. (mm)	Capacity (liters per minute)										Spray angle			
Type T Fem. Conn.	Type TT Male. Conn.				0.7Bar	1Bar	2Bar	3Bar	4Bar	5Bar	6Bar	10Bar	12Bar	20Bar	1.5Bar	3Bar	5Bar	
1/4TD1-13	1/4TTD1-13	D1	13	0.79			0.22	0.26	0.29	0.32	0.34	0.43	0.50	0.57		51°	62°	
1/4TD1.5-13	1/4TTD1.5-13	D1.5	13	0.91			0.25	0.29	0.33	0.36	0.39	0.48	0.56	0.63	38°	55°	66°	
1/4TD2-13	1/4TTD2-13	D2	13	1.0			0.22	0.29	0.33	0.37	0.41	0.44	0.53	0.63	49°	67°	72°	
1/4TD3-13	1/4TTD3-13	D3	13	1.2			0.24	0.30	0.35	0.41	0.44	0.48	0.59	0.68	53°	70°	75°	
1/4TD4-13	1/4TTD4-13	D4	13	1.6	0.27	0.31	0.40	0.47	0.53	0.59	0.63	0.76	0.89	1.00	69°	79°	83°	
1/4TD1-23	1/4TTD1-23	D1	23	0.79			0.24	0.28	0.32	0.34	0.38	0.46	0.54	0.61		47°	58°	
1/4TD1.5-23	1/4TTD1.5-23	D1.5	23	0.91			0.28	0.34	0.39	0.42	0.46	0.58	0.69	0.78	34°	51°	62°	
1/4TD2-23	1/4TTD2-23	D2	23	1.0			0.28	0.37	0.43	0.49	0.53	0.57	0.70	0.83	0.93	51°	63°	70°
1/4TD3-23	1/4TTD3-23	D3	23	1.2	0.25	0.29	0.39	0.46	0.52	0.58	0.62	0.78	0.93	1.1	58°	69°	75°	
1/4TD4-23	1/4TTD4-23	D4	23	1.6	0.32	0.37	0.51	0.61	0.70	0.77	0.83	1.1	1.3	1.4	68°	82°	87°	
1/4TD5-23	1/4TTD5-23	D5	23	2.0	0.37	0.44	0.59	0.72	0.82	0.91	0.98	1.3	1.5	1.7	79°	89°	94°	
1/4TD6-23	1/4TTD6-23	D6	23	2.4	0.42	0.5	0.69	0.83	0.95	1.1	1.2	1.5	1.8	2.0	84°	93°	98°	
1/4TD1-25	1/4TTD1-25	D1	25	0.79			0.33	0.40	0.45	0.5	0.54	0.69	0.83	0.95		27°	43°	
1/4TD1.5-25	1/4TTD1.5-25	D1.5	25	0.91			0.45	0.53	0.61	0.67	0.73	0.91	1.1	1.2		38°	49°	
1/4TD2-25	1/4TTD2-25	D2	25	1.0			0.37	0.51	0.62	0.71	0.79	0.86	1.1	1.3	1.5	39°	51°	58°
1/4TD3-25	1/4TTD3-25	D3	25	1.2	0.39	0.45	0.63	0.75	0.86	0.95	1.0	1.3	1.6	1.8	52°	61°	67°	
1/4TD4-25	1/4TTD4-25	D4	25	1.6	0.57	0.68	0.94	1.1	1.3	1.4	1.6	2.0	2.4	2.8	67°	74°	80°	
1/4TD5-25	1/4TTD5-25	D5	25	2.0	0.64	0.81	1.1	1.4	1.6	1.7	1.9	2.4	2.9	3.3	73°	79°	84°	
1/4TD6-25	1/4TTD6-25	D6	25	2.4	0.87	1.0	1.5	1.8	2.0	2.3	2.5	3.2	3.8	4.4	79°	85°	89°	
1/4TD7-25	1/4TTD7-25	D7	25	2.8	1.0	1.2	1.7	2.0	2.3	2.6	2.9	3.7	4.5	5.1	85°	91°	93°	
1/4TD8-25	1/4TTD8-25	D8	25	3.2	1.2	1.4	2.0	2.4	2.8	3.1	3.4	4.4	5.3	6.2	91°	96°	97°	
1/4TD10-25	1/4TTD10-25	D10	25	4.0	1.5	1.7	2.4	3.0	3.5	3.9	4.2	5.5	6.7	7.7	97°	102°	103°	
1/4TD11-25	1/4TTD11-25	D11	25	4.8	1.8	2.2	3.0	3.7	4.3	4.8	5.2	6.7	8.2	9.5	103°	109°	112°	
1/4TD12-25	1/4TTD12-25	D12	25	5.6	1.9	2.3	3.3	4.1	4.7	5.2	5.8	7.5	9.1	10.2	108°	113°	114°	
1/4TD1-45	1/4TTD1-45	D1	45	0.79				0.48	0.56	0.61	0.67	0.84	1.0	1.2		22°	34°	
1/4TD1.5-45	1/4TTD1.5-45	D1.5	45	0.91			0.53	0.64	0.74	0.81	0.90	1.1	1.4	1.7		33°	44°	
1/4TD2-45	1/4TTD2-45	D2	45	1.0			0.43	0.66	0.80	0.91	1.0	1.1	1.4	1.7	2.0	32°	46°	55°
1/4TD3-45	1/4TTD3-45	D3	45	1.2			0.53	0.74	0.91	1.0	1.2	1.3	1.6	2.0	2.3	40°	53°	60°
1/4TD4-45	1/4TTD4-45	D4	45	1.6	0.67	0.80	1.1	1.4	1.4	1.8	2.0	2.5	3.1	3.6	62°	69°	72°	
1/4TD5-45	1/4TTD5-45	D5	45	2.0	0.87	1.0	1.5	1.8	2.0	2.3	2.5	3.2	3.9	4.5	67°	73°	76°	
1/4TD6-45	1/4TTD6-45	D6	45	2.4	1.1	1.3	1.9	2.3	2.7	3.0	3.3	4.3	5.3	6.1	73°	79°	81°	
1/4TD7-45	1/4TTD7-45	D7	45	2.8	1.3	1.5	2.2	2.7	3.1	3.5	3.9	5.0	6.2	7.2	81°	86°	87°	
1/4TD8-45	1/4TTD8-45	D8	45	3.2	1.6	1.9	2.7	3.3	3.9	4.3	4.8	6.2	7.6	8.9	86°	90°	90°	
1/4TD10-45	1/4TTD10-45	D10	45	4.0	2.0	2.5	3.5	4.4	5.0	5.6	6.2	8.0	9.8	11.5	90°	93°	93°	
1/4TD12-45	1/4TTD12-45	D12	45	4.8	2.5	3.1	4.4	5.3	6.2	6.9	7.6	9.8	12.1	14.0	97°	100°	102°	
1/4TD14-45	1/4TTD14-45	D14	45	5.6	2.8	3.4	4.9	6	7.0	7.8	8.6	11.2	13.6	15.9	101°	104°	105°	
1/4TD16-45	1/4TTD16-45	D16	45	6.4	3.3	4.0	5.7	7.1	8.2	9.3	10.2	13.2	16.3	19.1	108°	111°	112°	
1/4TD1-46	1/4TTD1-46	D1	46	0.79				0.58	0.66	0.74	0.81	1.0	1.3	1.5		13°	15°	
1/4TD1.5-46	1/4TTD1.5-46	D1.5	46	0.91				0.84	0.97	1.1	1.2	1.5	1.8	2.1		15°	17°	
1/4TD2-46	1/4TTD2-46	D2	46	1.0			0.89	1.1	1.2	1.3	1.5	1.9	2.2	2.5		18°	21°	
1/4TD3-46	1/4TTD3-46	D3	46	1.2			1.0	1.3	1.5	1.6	1.8	2.3	2.8	3.2	14°	20°	24°	
1/4TD4-46	1/4TTD4-46	D4	46	1.6	1.1	1.3	1.8	2.2	2.5	2.8	3.2	4.0	4.9	5.7	23°	29°	33°	
1/4TD5-46	1/4TTD5-46	D5	46	2.0	1.4	1.7	2.5	3.0	3.5	3.9	4.3	5.6	6.8	7.9	33°	39°	42°	
1/4TD6-46	1/4TTD6-46	D6	46	2.4	2.1	2.5	3.6	4.4	5.0	5.7	6.2	8.0	9.8	11.4	42°	48°	50°	
1/4TD7-46	1/4TTD7-46	D7	46	2.8			4.5	5.5	6.3	7.1	7.8	10.0	12.3	13.8	48°	53°	56°	
1/4TD8-46	1/4TTD8-46	D8	46	3.2			5.9	7.2	8.3	9.3	10.2	13.2	16.3	18.8		60°	62°	
1/4TD10-46	1/4TTD10-46	D10	46	4.0			7.9	9.7	11.3	12.6	13.8	17.9	22.0	25.0		66°	68°	
1/4TD1-56	1/4TTD1-56	D1	56	0.79				0.67	0.75	0.82	1.0	1.3	1.5				13°	
1/4TD1.5-56	1/4TTD1.5-56	D1.5	56	0.91					1.0	1.1	1.2	1.5	1.8	2.1			15°	

**STRAINER NOTE:**

For nozzles using orifice Disc Nos. 1, 1.5 and 2 or core Nos. 13 and 23...fit equivalent to 25 mesh screen size is supplied.  
 For all other larger capacity Discs and Cores...fit equivalent to 16 mesh screen size is supplied.