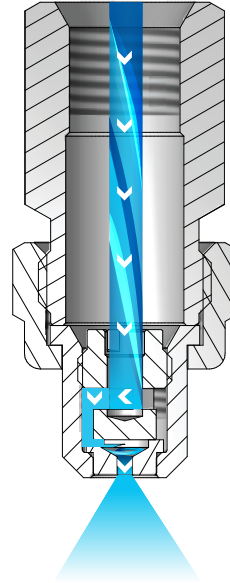


OVERVIEW: UNIJET

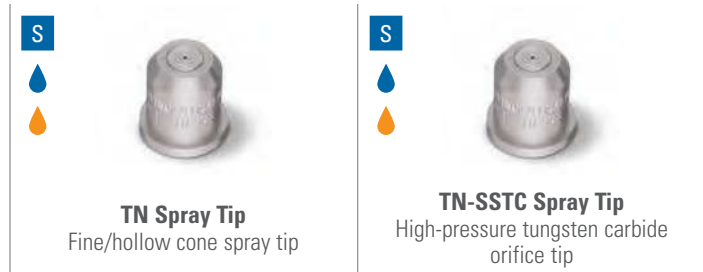
- Quick-connect nozzles reduce maintenance time – bodies remain on pipe/header
- Save on nozzle replacement costs – bodies can be reused, only spray tips are replaced; tips fit on male or female bodies
- Hollow cone spray pattern with a circular impact area
- Excellent atomization at relatively low pressures
- Spray angles: Standard – 13° to 114°, Wide – 130° to 140°
- Uniform spray distribution from 3.6 to 4,920 gph (13.2 to 17,760 lph)
- Operating pressures up to 400 psi (25 bar)
- Orifice inserts, cores and strainers are easily removed for inspection or cleaning
- TN versions provide very fine atomized sprays using liquid pressure alone; compressed air not required
 - Spray angles: Standard – 43° to 91°
 - Uniform spray distribution from .82 to 184 gph (3.1 to 701 lph)
 - Operating pressures up to 2000 psi (140 bar)



UniJet TX, D and TN Nozzles

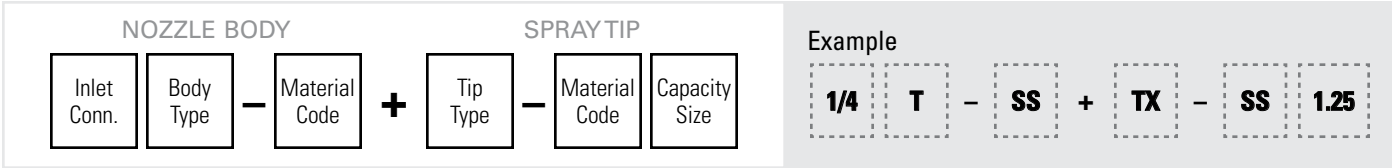
As the liquid passes through the nozzle, it is forced to pass through slots in the orifice. These slots make the liquid spin in a circle at a high speed as it exits the orifice, creating the hollow cone pattern.

UNIJET OPTIONS



ORDERING INFORMATION

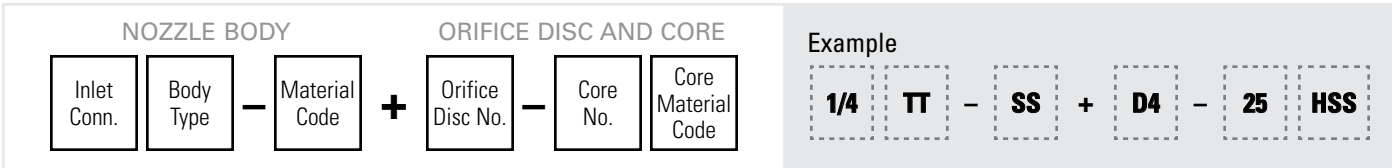
UNIJET



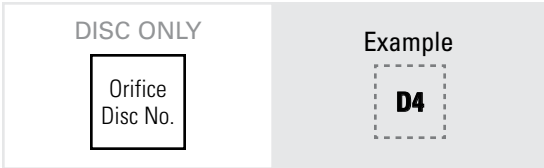
UniJet nozzle assemblies include a pre-sized wire mesh based on orifice diameter. When ordering just a UniJet spray tip, the mesh is not included. See Accessories, page F6 for a mesh selection guide and ordering information.

BSPT connections require the addition of a "B" prior to the nozzle body inlet connection.

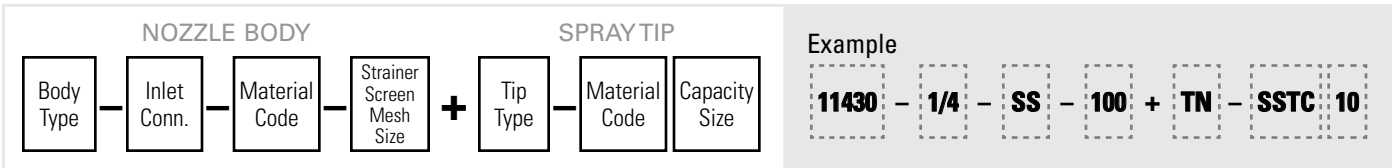
UNIJET – DISC AND CORE TYPE



BSPT connections require the addition of a "B" prior to the nozzle body inlet connection.



UNIJET HIGH PRESSURE



BSPT connections require the addition of a "B" prior to the nozzle body inlet connection.

QUICK REFERENCE GUIDE

Model	Connection	Connection Size (in.)	Materials	Page Number	
				Performance Data	Dimensions and Weights
T body	F	1/8 to 1/2	Brass, 303 stainless steel (SS)	-	D26
TT body	M			-	
11430 body	F	1/4	303 stainless steel (SS)	-	
TX spray tip	NA	NA	Brass, 303 stainless steel (SS)	D22	
D spray tip	NA	NA	Brass, 303 stainless steel (SS), Hardened stainless steel (HSS)	D23-D24	
T-W spray tip	NA	NA	Brass, 303 stainless steel (SS)	D22	
TN spray tip	NA	NA		D25	
TN-SSTC spray tip	NA	NA	303 stainless steel with tungsten carbide orifice (SSTC)	D25-D26	

F = female thread; M = male thread; NA = not applicable. There is no material code for brass. Leave material code blank when ordering. Other materials available upon request. For more dimensions and sizes, contact your sales engineer.

RELATIVE DROP SIZE
IN MICRONS



Drop size will vary based on flow rate and pressure.

S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Body Inlet Conn. (in.)	UniJet Tip Type	Capacity Size	Inlet Openings (in.)	Orifice Dia. Nom. (in.)	Flow Rate Capacity (gallons per hour)										Spray Angle (°)	
					20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	150 psi	200 psi	400 psi	20 psi	40 psi	
1/4	●	.60	One .012 x .010	.014	–	–	–	.73	.85	.95	1.2	1.3	1.9	–	–	
	●	1	One .016 x .015	.020	–	.87	1.0	1.2	1.4	1.6	1.9	2.2	3.2	–	54	
	●	1.25	One .020 x .020	.022	–	1.1	1.3	1.5	1.8	2.0	2.4	2.8	4.0	–	59	
	●	1.5	One .024 x .020	.024	–	1.3	1.5	1.8	2.1	2.4	2.9	3.4	4.7	–	63	
	●	2	One .028 x .024	.028	1.4	1.7	2.0	2.4	2.8	3.2	3.9	4.5	6.3	40	68	
	●	2.5	One .030 x .029	.031	1.8	2.2	2.5	3.1	3.5	4.0	4.8	5.6	7.9	48	70	
	●	3	One .036 x .034	.034	2.1	2.6	3.0	3.7	4.2	4.7	5.8	6.7	9.5	57	72	
	●	4	One .040 x .034	.041	2.8	3.5	4.0	4.9	5.7	6.3	7.7	8.9	12.6	61	73	
	●	5	Two .032 x .032	.044	3.5	4.3	5.0	6.1	7.1	7.9	9.7	11.2	15.8	63	73	
	●	6	Two .040 x .032	.047	4.2	5.2	6.0	7.3	8.5	9.5	11.6	13.4	19.0	65	74	
	●	8	Two .040 x .036	.055	5.7	6.9	8.0	9.8	11.3	12.6	15.5	17.9	25	66	74	
	●	10	Two .050 x .030	.060	7.1	8.7	10.0	12.2	14.1	15.8	19.4	22	32	68	75	
	●	12	Two .050 x .034	.067	8.5	10.4	12.0	14.7	17.0	19.0	23	27	38	69	76	
	●	14	Two .055 x .034	.070	9.9	12.1	14.0	17.1	19.8	22	27	31	44	70	76	
	●	18	Two .060 x .031	.079	12.7	15.6	18.0	22	25	28	35	40	57	71	77	
	●	22	Two .065 x .030	.086	15.6	19.1	22	27	31	35	43	49	70	71	78	
●	26	Two .065 x .030	.094	18.4	23	26	32	37	41	50	58	82	72	78		

Spray angle of all above tips is 80° at 100 psi (7 bar).

Other body types may be available. Contact your sales engineer for more information.

Highlighted column shows the rated pressure.

W PERFORMANCE DATA:
WIDE ANGLE SPRAY

Body Inlet Conn. (in.)	UniJet Tip Type	Capacity Size	Inlet Openings (in.)	Orifice Dia. Nom. (in.)	Flow Rate Capacity (gallons per hour)								Spray Angle (°)		
					10 psi	15 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	20 psi	40 psi	80 psi
1/4	●	T2W	Two .016 x .015	.031	–	–	1.4	1.7	2.0	2.4	2.8	3.2	130	140	136
	●	T3W	Two .020 x .019	.039	–	1.8	2.1	2.6	3.0	3.7	4.2	4.7	138	140	137
	●	T4W	Two .024 x .021	.044	–	2.4	2.8	3.5	4.0	4.9	5.7	6.3	140	140	138
	●	T5W	Two .028 x .027	.050	2.5	3.1	3.5	4.3	5.0	6.1	7.1	7.9	140	140	138
	●	T6W	Two .032 x .026	.055	3.0	3.7	4.2	5.2	6.0	7.3	8.5	9.5	140	140	138
	●	T8W	Two .036 x .029	.063	4.0	4.9	5.7	6.9	8.0	9.8	11.3	12.6	140	140	136
	●	T10W	Two .040 x .030	.070	5.0	6.1	7.1	8.7	10.0	12.2	14.1	15.8	140	140	136
	●	T12W	Two .044 x .029	.078	6.0	7.3	8.5	10.4	12.0	14.7	17.0	19.0	140	140	136

Other body types may be available. Contact your sales engineer for more information.

Highlighted column shows the rated pressure.



S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Body Inlet Conn. (in.)	UniJet Tip Type	Capacity Size	Orifice Dia. Nom. (in.)	Flow Rate Capacity (gallons per hour)					Approximate Spray Pattern Dia. (at 1 foot distance) (in.)
	TN-SSTC			400 psi	750 psi	1000 psi	1500 psi	2000 psi	
1/4	●	4	.042	12.6	17.3	20	24	28	8
	●	6	.042	19.0	26	30	37	42	10
	●	8	.060	25	35	40	49	57	12
	●	9	.060	28	39	45	55	64	14
	●	10	.064	32	43	50	61	71	16
	●	12	.076	38	52	60	73	85	18
	●	14	.076	44	61	70	86	99	14
	●	15	.081	47	65	75	92	106	16
	●	16	.086	51	69	80	98	113	18
	●	18	.076	57	78	90	110	127	16
	●	20	.081	63	87	100	122	141	18
	●	22	.076	70	95	110	135	156	12
	●	24	.081	76	104	120	147	170	13
	●	26	.086	82	113	130	159	184	14

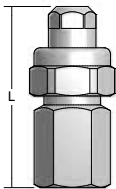
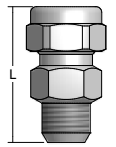
Spray pattern diameter is based on liquid with viscosity of 20 seconds #3 Zahn Cup spraying at 1600 psi (110 bar).

Coverage will vary with viscosities and pressures. Tabulated capacities are based on water.

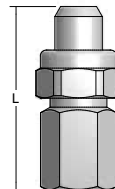
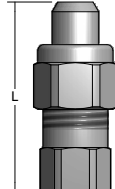
Other body types may be available. Contact your sales engineer for more information.

Calibration pressure = 40 psi (3 bar).

DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (in.)	Hex. (in.)	Net Weight (oz.)
	T (F) + TX TT (M) + TX	1/4	1.875	13/16	2.5
	T (F) + T-W TT (M) + T-W	1/4	1.875	13/16	2.5
	T (F) + D TT (M) + D	1/4	1.500	13/16	2.5

Based on the largest/heaviest version of each type.

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (in.)	Hex. (in.)	Net Weight (oz.)
	T (F) + TN TT (M) + TN	1/4	1.906	13/16	2.5
	T (F) + TN-SSTC TT (M) + TN-SSTC	1/4	1.906	13/16	2.5
	11430 (F) + TN-SSTC	1/4	1.938	13/16	2.6

Based on the largest/heaviest version of each type.

