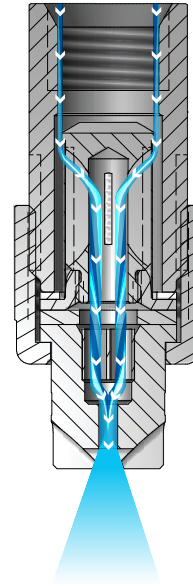


OVERVIEW: UNIJET HIGH PRESSURE SPRAY NOZZLE

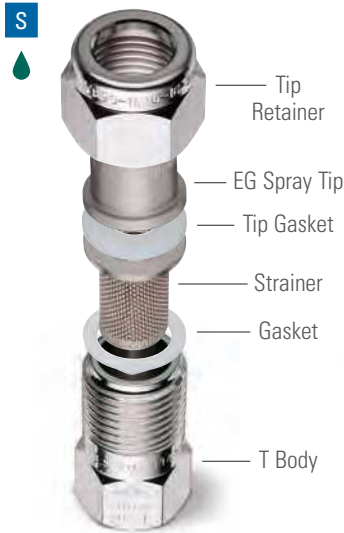
- Designed for operations requiring higher impact
- Save on nozzle replacement costs – bodies can be reused, only spray tips are replaced
- Design allows easy tip change out – remove tips by unscrewing the retainer cap
- Flat spray nozzles provide an even edge fan type spray pattern
- Spray angles from 0° to 65°
- Uniform spray distribution across the entire spray pattern and flow rates from .41 to 17.3 gpm (1.5 to 64 lpm)
- Operating pressures from 300 to 3000 psi (20 to 200 bar) – higher than standard tips
- Body assembly consists of high pressure nozzle body, strainer, tip gasket and high pressure tip retainer



UniJet High Pressure Nozzles

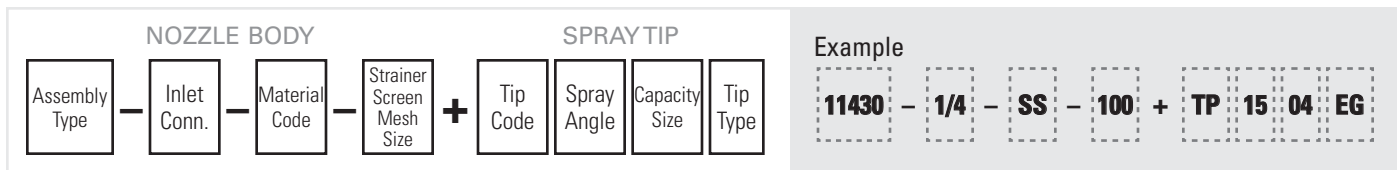
As the liquid exits through the rounded U shape of the orifice, it forms into a flat spray pattern. The distribution is even at pressures above 300 psi (20 bar).

UNIJET HIGH PRESSURE SPRAY NOZZLE



EG Spray Tip + 11430 Assembly
Use with gasket, screen strainer, tip gasket and high pressure tip retainer

**ORDERING INFORMATION
UNIJET HIGH PRESSURE**



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

**RELATIVE DROP SIZE
IN MICRONS**

10 to 100	100 to 500	500 to 1000	1000 to 5000
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Drop size will vary based on flow rate and pressure.

QUICK REFERENCE GUIDE

Model	Connection	Connection Size (in.)	Materials	Page Number	
				Performance Data	Dimensions and Weights
11430 body assembly	F	1/4	303 stainless steel (SS)	–	C39
EG spray tip	NA	NA	Hardened stainless steel	C39	

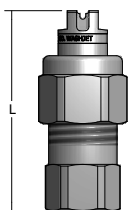
F = female thread; NA = not applicable. No material code is required for hardened stainless steel. Leave material code blank when ordering.
For more dimensions and sizes, contact your sales engineer.

S PERFORMANCE DATA: STANDARD ANGLE SPRAY

UniJet Tip Type	Spray Angle at 3 bar						Capacity Size	Flow Rate Capacity (liters per minute)								
	EG	0°*	15°	25°	40°	50°		65°	3 bar	20 bar	35 bar	50 bar	80 bar	100 bar	140 bar	170 bar
●	●						015	.59	1.5	2.0	2.4	3.1	3.4	4.0	4.5	4.8
●	●						02	.79	2.0	2.7	3.2	4.1	4.6	5.4	5.9	6.4
●	●	●	●				03	1.2	3.1	4.0	4.8	6.1	6.8	8.1	8.9	9.7
●	●	●	●	●		●	04	1.6	4.1	5.4	6.4	8.2	9.1	10.8	11.9	12.9
●	●	●	●	●			045	1.8	4.6	6.1	7.3	9.2	10.3	12.1	13.4	14.5
●	●	●	●	●			05	2.0	5.1	6.7	8.1	10.2	11.4	13.5	14.9	16.1
●	●	●	●	●			055	2.2	5.6	7.4	8.9	11.2	12.5	14.8	16.3	17.7
●	●	●	●	●	●	●	06	2.4	6.1	8.1	9.7	12.2	13.7	16.2	17.8	19.3
●	●		●				065	2.6	6.6	8.8	10.5	13.3	14.8	17.5	19.3	21
●	●	●	●	●	●	●	07	2.8	7.1	9.4	11.3	14.3	16.0	18.9	21	23
●	●	●	●	●		●	08	3.2	8.2	10.8	12.9	16.3	18.2	22	24	26
●	●	●	●	●		●	09	3.6	9.2	12.1	14.5	18.3	21	24	27	29
●	●	●	●	●	●		10	3.9	10.2	13.5	16.1	20	23	27	30	32
●	●		●				11	4.3	11.2	14.8	17.7	22	25	30	33	35
●			●				12	4.7	12.2	16.2	19.3	24	27	32	36	39
●	●	●		●			13	5.1	13.3	17.5	21	27	30	35	39	42
●	●						14	5.5	14.3	18.9	23	29	32	38	42	45
●		●	●	●			15	5.9	15.3	20	24	31	34	40	45	48
●	●			●	●		20	7.9	20	27	32	41	46	54	59	64

*0° = Solid Stream.
Other body types may be available. Contact representative for further information.
Highlighted column shows the rated pressure.

DIMENSIONS AND WEIGHTS

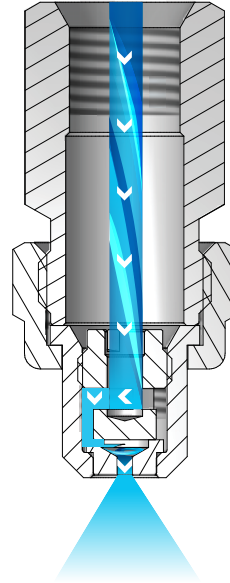
Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	Hex. (in.)	Net Weight (kg)
	11430 (F) + EG	1/4	56.3	13/16	0.10

Based on the largest/heaviest version of each type.



OVERVIEW: UNIJET

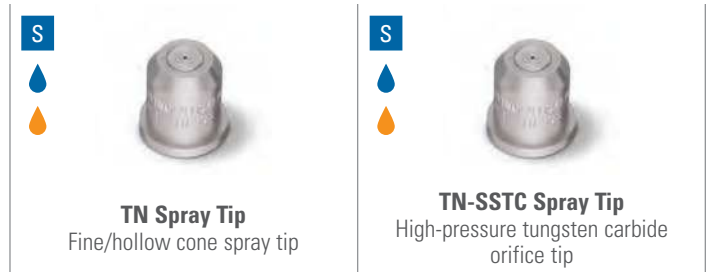
- Quick-connect nozzles reduce maintenance time – bodies remain on pipe/header
- Save on nozzle replacement costs – bodies can be reused, only spray tips are replaced; tips fit on male or female bodies
- Hollow cone spray pattern with a circular impact area
- Excellent atomization at relatively low pressures
- 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

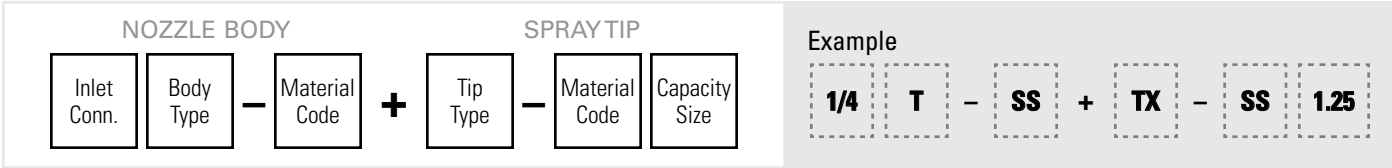
As the liquid passes through the nozzle, it is forced to pass through slots in the orifice. These slots make the liquid spin in a circle at a high speed as it exits the orifice, creating the hollow cone pattern.

UNIJET OPTIONS



ORDERING INFORMATION

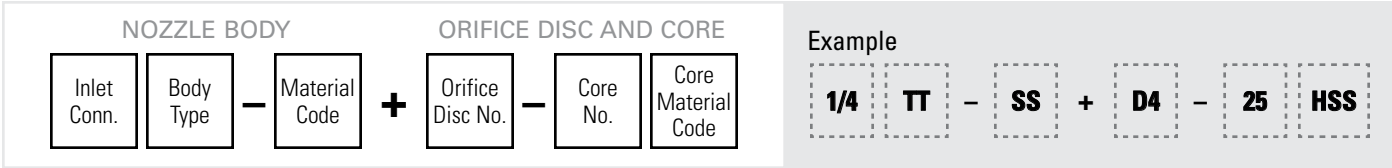
UNIJET



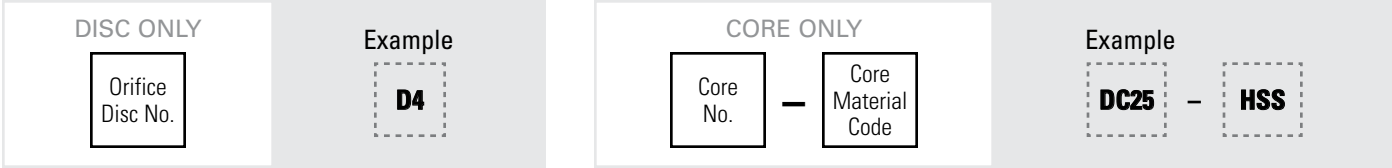
UniJet nozzle assemblies include a pre-sized wire mesh based on orifice diameter. When ordering just a UniJet spray tip, the mesh is not included. See Accessories, page F6 for a mesh selection guide and ordering information.

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

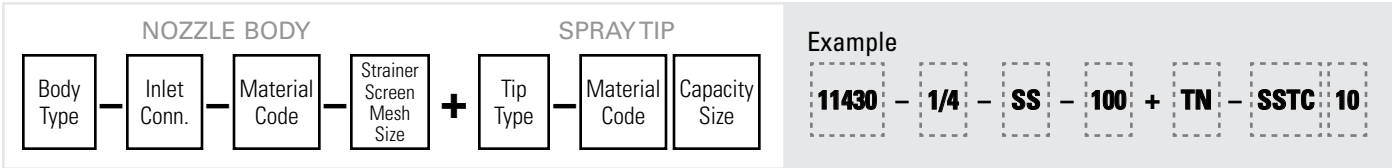
UNIJET – DISC AND CORE TYPE



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	Orifice Dia. Nom. (mm)	Flow Rate Capacity (liters per hour)					Approximate Spray Pattern Dia. (at 30 cm distance) (cm)
	TN-SSTC			25 bar	50 bar	80 bar	100 bar	140 bar	
1/4	●	4	1.1	46	64	82	91	108	20.3
	●	6	1.1	68	97	122	137	162	25.4
	●	8	1.5	91	129	163	182	216	30.5
	●	9	1.5	103	145	183	205	243	35.6
	●	10	1.6	114	161	204	228	270	40.6
	●	12	1.9	137	193	245	274	324	45.7
	●	14	1.9	160	226	285	319	378	35.6
	●	15	2.1	171	242	306	342	405	40.6
	●	16	2.2	182	258	326	365	432	45.7
	●	18	1.9	205	290	367	410	485	40.6
	●	20	2.1	228	322	408	456	539	45.7
	●	22	1.9	251	355	449	501	593	30.5
	●	24	2.1	274	387	489	547	647	33
	●	26	2.2	296	419	530	593	701	35.6

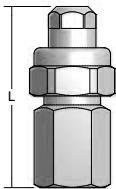
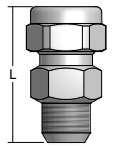
Spray pattern diameter is based on liquid with viscosity of 20 seconds #3 Zahn Cup spraying at 1600 psi (110 bar).

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

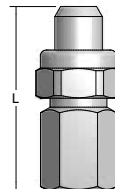
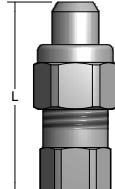
Other body types may be available. Contact your sales engineer for more information.

Calibration pressure = 40 psi (3 bar).

DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	Hex. (in.)	Net Weight (kg)
	T (F) + TX TT (M) + TX	1/4	47.6	13/16	0.07
	T (F) + T-W TT (M) + T-W	1/4	47.6	13/16	0.07
	T (F) + D TT (M) + D	1/4	38.1	13/16	0.07

Based on the largest/heaviest version of each type.

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	Hex. (in.)	Net Weight (kg)
	T (F) + TN TT (M) + TN	1/4	48.4	13/16	0.07
	T (F) + TN-SSTC TT (M) + TN-SSTC	1/4	48.4	13/16	0.07
	11430 (F) + TN-SSTC	1/4	49.2	13/16	0.07

Based on the largest/heaviest version of each type.