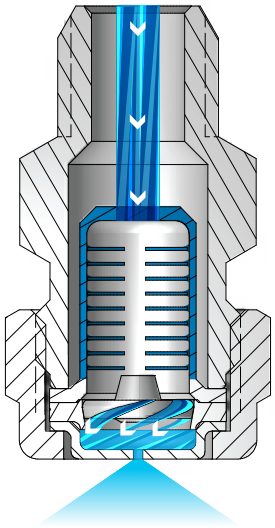
OVERVIEW: UNIJET

- 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
- Solid cone-shaped spray pattern with round impact area or cone-shaped spray pattern with square-like impact area for coverage of rectangular areas or spray zones
- Spray angles: Standard – 43° to 91°, Wide – 112° to 120°
- Uniform spray distribution from .08 to 7.4 gpm (.3 to 28 lpm)
- Operating pressures up to 300 psi (20 bar)



UniJet D and TG Nozzles

As the liquid enters the nozzle, it passes through an internal strainer and into the slotted core where the swirling begins. The swirling continues as the liquid passes through a disc. The breakup of the liquid occurs as it exits the orifice, producing a well-defined cone pattern. The drops are uniform in size and distributed equally throughout the spray pattern.

UNIJET OPTIONS

S

D Spray Tip + T Body
1/4" female conn.
Disc and core type
Use with slotted strainer and tip retainer

TT Body/Cap
1/8" to 1/2" male conn.

T Body/Cap
1/8" to 1/2" female conn.

S

TG Spray Tip
Use with T or TT bodies and tip retainer

W

TG-W Spray Tip
Use with T or TT bodies and tip retainer

S

TG-SQ Spray Tip
Use with T or TT bodies and tip retainer

W

TH-W Spray Tip
Tip and retainer in one
Use with T or TT bodies

ORDERING INFORMATION

UNIJET

NOZZLE BODY				SPRAY TIP			
Inlet Conn.	Body Type	– Material Code	+	Tip Type	– Material Code	Capacity Size	

Example: **1/4** **T** – **SS** + **TG** – **SS** **10**

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

NOZZLE BODY				ORIFICE DISC AND CORE			
Inlet Conn.	Body Type	– Material Code	+	Orifice Disc No.	– Core No.	Material Code	

Example: **1/4** **TT** – **SS** + **D4** – **35** **HSS**

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.

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)	–	B40
TT body	M			–	
D spray tip	NA	NA	303 stainless steel (SS), Hardened stainless steel (HSS)	B38	
TG spray tip	NA	NA	Brass, 303 stainless steel (SS)	B39	
TG-W and TH-W spray tips	NA	NA	Brass, 303 stainless steel (SS)	B39	
TG-SQ spray tip	NA	NA	Brass, 303 stainless steel (SS)	B40	

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

10 to 100	100 to 500	500 to 1000	1000 to 5000

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)	Max. Free Passage Dia. (mm)	Flow Rate Capacity (liters per minute)								Spray Angle (°)		
	TG				0.4 bar	0.5 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	10 bar	0.5 bar	1.5 bar	6 bar
1/4	●	.3	.51	.41	–	–	–	.16	.22	.31	.33	.39	–	50	61
	●	.4	.56	.46	–	–	–	.22	.30	.41	.44	.52	–	56	63
	●	.5	.61	.51	–	–	–	.27	.37	.51	.55	.65	–	56	63
	●	.6	.69	.51	–	–	–	.32	.45	.61	.66	.78	–	54	62
	●	.7	.76	.51	–	–	–	.38	.52	.72	.77	.91	–	54	63
	●	1	.94	.64	–	–	.38	.54	.74	1.0	1.1	1.3	–	58	53
	●	2	1.19	1.0	.59	.65	.76	1.1	1.5	2.0	2.2	2.6	43	50	46
	●	3	1.57	1.0	.88	.98	1.1	1.6	2.2	3.1	3.3	3.9	52	65	59
	●	3.5	1.70	1.3	1.0	1.1	1.3	1.9	2.6	3.6	3.8	4.5	43	50	46
	●	5	2.08	1.3	1.5	1.6	1.9	2.7	3.7	5.1	5.5	6.5	52	65	59
	●	6.5	2.38	1.6	1.9	2.1	2.5	3.5	4.8	6.7	7.1	8.4	45	50	46
	●	10	3.18	1.6	3.0	3.3	3.8	5.4	7.5	10.3	11.0	13.0	58	67	61

Maximum Free Passage Diameter is the maximum diameter as listed of foreign matter that can pass through the nozzle without clogging.

Other body sizes may be available. Contact your sales engineer for further information.

Highlighted column shows the rated pressure.

W PERFORMANCE DATA: WIDE ANGLE SPRAY

Body Inlet Conn. (in.)	UniJet Tip Type		Capacity Size	Orifice Dia. Nom. (mm)	Max. Free Passage Dia. (mm)	Flow Rate Capacity (liters per minute)							Spray Angle (°)		
	TG-W	TH-W				0.4 bar	0.5 bar	0.7 bar	1 bar	1.5 bar	3 bar	6 bar	0.4 bar	0.7 bar	6 bar
1/8, 1/4	●	●	2.8W	1.6	1.0	–	–	1.1	1.2	1.5	2.0	2.7	–	120	102
	●	●	4.3W	2.0	1.0	–	–	1.6	1.9	2.3	3.1	4.2	–	120	102
	●	●	5.6W	2.4	1.0	–	1.8	2.1	2.5	3.0	4.0	5.5	–	120	102
	●	●	8W	2.4	1.3	–	2.6	3.0	3.6	4.3	6.0	8.2	–	120	103
1/4	●	●	10W	2.8	1.3	3.0	3.3	3.8	4.5	5.4	7.5	10.3	112	120	103
	●		12W	3.2	1.3	3.5	3.9	4.6	5.4	6.5	8.9	12.3	114	120	103
	●	●	14W	3.6	1.6	4.2	4.6	5.3	6.2	7.5	10.2	13.8	114	120	103
3/8		●	17W	4.0	1.6	5.1	5.6	6.5	7.6	9.1	12.3	16.7	114	120	103
		●	20W	4.4	2.4	6.0	6.6	7.6	8.9	10.7	14.5	19.6	114	120	104
		●	24W	4.8	2.4	7.2	7.9	9.1	10.7	12.8	17.3	24	114	120	104
		●	27W	5.2	2.8	8.0	8.9	10.3	12.0	14.4	19.5	26	114	120	106
1/2		●	30W	5.6	2.8	8.9	9.9	11.4	13.4	16.0	22	29	114	120	108
		●	35W	6.0	3.2	10.4	11.5	13.3	15.6	18.7	25	34	114	120	108

Maximum Free Passage Diameter is the maximum diameter as listed of foreign matter that can pass through the nozzle without clogging.

Other body sizes may be available. Contact your sales engineer for further information.

Highlighted column shows the rated pressure.

S PERFORMANCE DATA: STANDARD ANGLE SPRAY

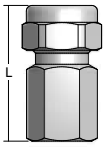
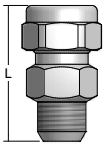
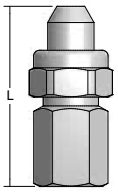
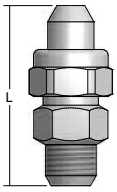
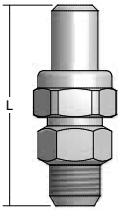
Body Inlet Conn. (in.)	UniJet Tip Type	Capacity Size	Orifice Dia. Nom. (mm)	Max. Free Passage Dia. (mm)	Flow Rate Capacity (liters per minute)								Spray Angle (°)		
	TG-SQ				0.4 bar	0.5 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	10 bar	0.5 bar	1.5 bar	6 bar
1/4	●	6SQ	2.4	1.3	1.8	2.0	2.3	3.2	4.5	6.1	6.6	7.8	60	66	60
	●	8SQ	2.5	1.3	2.4	2.6	3.0	4.3	6.0	8.2	8.8	10.4	70	75	68
	●	10SQ	2.8	1.6	2.9	3.3	3.8	5.4	7.4	10.2	11.0	13.0	62	66	60
	●	12SQ	3.2	1.6	3.5	3.9	4.6	6.5	8.9	12.3	13.2	15.5	70	75	68
3/8	●	18SQ	4.0	2.4	5.3	5.9	6.9	9.7	13.4	18.4	19.8	23	71	75	68

Maximum Free Passage Diameter is the maximum diameter as listed of foreign matter that can pass through the nozzle without clogging.

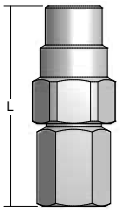
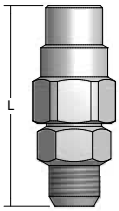
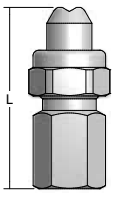
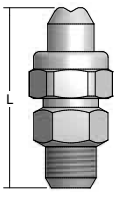
Other body sizes may be available. Contact your sales engineer for further information.

Highlighted column shows the rated pressure.

DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	Hex. (in.)	Net Weight (kg)
	**T (F) + D**	1/4	38.1	13/16	0.06
	**TT (M) + D**	1/4	38.1	13/16	0.05
	**T (F) + TG**	1/4	46.8	13/16	0.06
	**TT (M) + TG**	1/4	46.8	13/16	0.06
	**T (F) + TG-W** **TT (M) + TG-W**	1/8	52.8	13/16	0.06
		1/4	52.8	13/16	0.07

Based on the largest/heaviest version of each type. Additional sizes are available.

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	Hex. (in.)	Net Weight (kg)
	**T (F) + TH-W** **TT (M) + TH-W**	1/8	54.8	13/16	0.11
		1/4	67.9	13/16	0.11
		3/8	68	13/16	0.12
		1/2	66.3	1	0.12
	**T (F) + TG-SQ** **TT (M) + TG-SQ**	1/4	57.9	13/16	0.05
		3/8	58.1	13/16	0.06

Based on the largest/heaviest version of each type. Additional sizes are available.