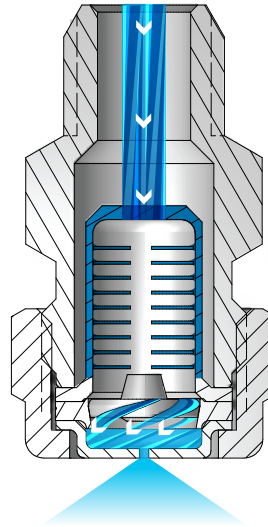


OVERVIEW: UNIJET

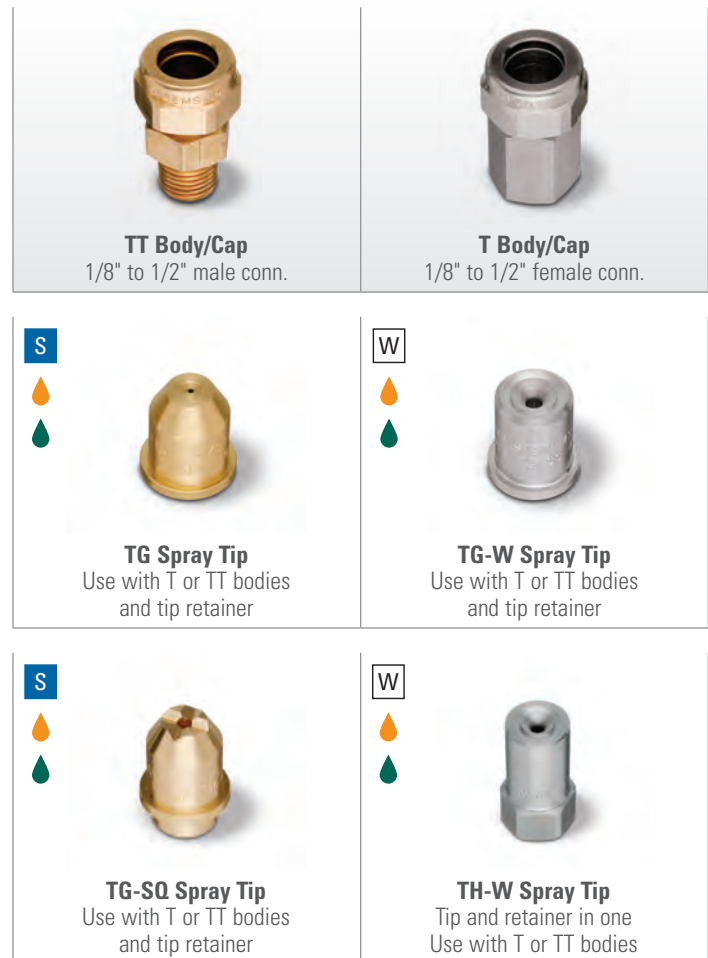
- Quick-connect nozzles reduce maintenance time – bodies remain on pipe/header
- Save on nozzle replacement costs – bodies can be reused, only spray tips are replaced; tips fit on male or female bodies
- Solid cone-shaped spray pattern with round impact area or cone-shaped spray pattern with square-like 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

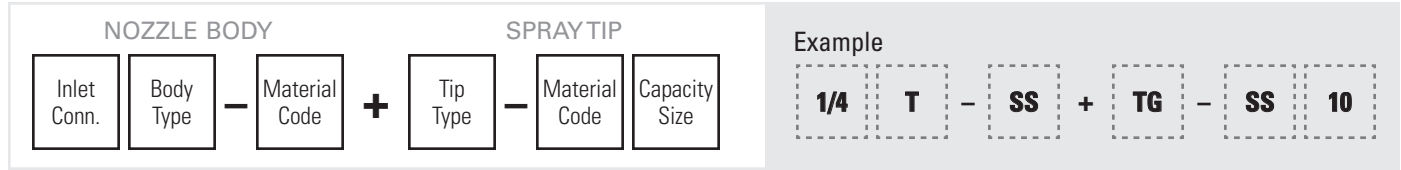
As the liquid enters the nozzle, it passes through an internal strainer and into the slotted core where the swirling begins. The swirling continues as the liquid passes through a disc. The breakup of the liquid occurs as it exits the orifice, producing a well-defined cone pattern. The drops are uniform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

UNIJET OPTIONS



ORDERING INFORMATION

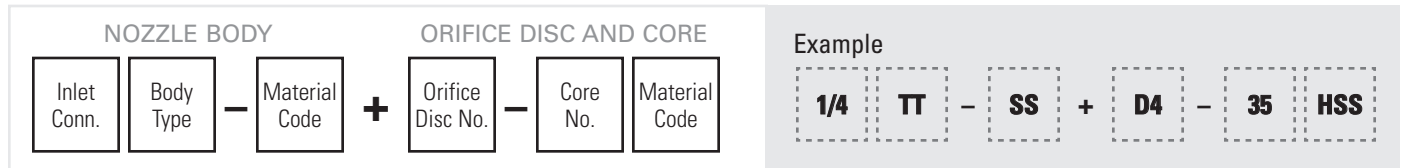
UNIJET



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



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.



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S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Body Inlet Conn. (in.)	UniJet Tip Type	Orifice Disc No. – Core No.	Orifice Dia. Nom. (mm)	Flow Rate Capacity (liters per minute)								Spray Angle (°)		
				0.7 bar	1.5 bar	3 bar	6 bar	7 bar	10 bar	15 bar	20 bar	1.5 bar	3 bar	6 bar
1/4	●	D1-31	.79	.31	.41	.59	.80	.92	1.0	1.2	1.4	49	47	43
	●	D1.5-31	.91	.39	.51	.76	1.0	1.2	1.3	1.6	1.8	57	65	53
	●	D2-31	1.0	.45	.59	.86	1.2	1.4	1.5	1.8	2.0	62	63	61
	●	D3-31	1.2	.49	.64	.95	1.3	1.5	1.6	1.9	2.2	63	65	63
	●	D1-33	.79	.32	.42	.56	.78	.90	.98	1.2	1.4	27	32	35
	●	D1.5-33	.91	.42	.55	.75	1.0	1.2	1.3	1.6	1.9	37	43	45
	●	D2-33	1.0	.47	.62	.95	1.3	1.5	1.7	2.0	2.3	45	52	55
	●	D3-33	1.2	.57	.75	1.1	1.6	1.8	2.0	2.5	2.8	48	54	57
	●	D4-33	1.6	.78	1.0	1.5	2.1	2.4	2.7	3.3	3.7	50	56	61
	●	D1-35	.79	.30	.39	.58	.78	.90	.97	1.2	1.3	19	23	26
	●	D1.5-35	.91	.41	.54	.76	1.0	1.2	1.3	1.5	1.7	23	27	29
	●	D2-35	1.0	.53	.70	.99	1.3	1.5	1.7	2.0	2.2	40	44	47
	●	D3-35	1.2	.58	.76	1.2	1.6	1.8	2.0	2.4	2.8	45	50	52
	●	D4-35	1.6	1.0	1.3	2.0	2.8	3.2	3.5	4.2	4.8	68	70	71
	●	D5-35	2.0	1.3	1.7	2.6	3.6	4.1	4.5	5.5	6.3	67	69	71
	●	D2-56	1.0	–	–	.98	1.4	1.6	1.8	2.2	2.5	–	14	17
	●	D3-56	1.2	–	–	1.3	1.9	2.2	2.4	3.0	3.4	–	20	23
	●	D4-56	1.6	–	1.3	2.2	3.1	3.6	4.0	4.8	5.6	20	26	29
	●	D5-56	2.0	1.4	1.8	3.0	4.3	4.9	5.5	6.7	7.8	26	32	34
	●	D6-56	2.4	2.2	2.8	4.5	6.5	7.5	8.5	10.2	11.9	34	39	41
	●	D7-56	2.8	2.9	3.8	6.0	8.5	9.8	11.0	13.5	15.6	45	52	54
	●	D8-56	3.2	3.7	4.9	7.6	10.8	12.4	13.9	17.0	19.6	52	57	59
	●	D10-56	4.0	5.1	6.7	10.6	15.0	17.3	19.3	24	27	62	65	67

For nozzles using Orifice Disc Nos. 1, 1.5 and 2 or Core Nos. 31 and 33, Slotted Strainer No. 4514-20 equivalent to 25 mesh screen size is supplied. For all other larger capacity Discs and Cores, Slotted Strainer No. 4514-32 equivalent to 16 mesh screen size is supplied.

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

For additional information see Data Sheet 4498-1.

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				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.



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อ. บางพลี จ. สมุทรปราการ 10540



S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

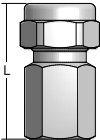
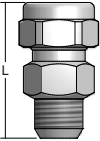
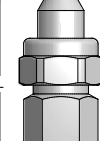
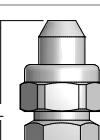
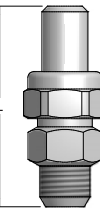
Body Inlet Conn. (in.)	UniJet Tip Type	Capacity Size	Orifice Dia. Nom. (mm)	Max. Free Passage Dia. (mm)	Flow Rate Capacity (liters per minute)								Spray Angle (°)		
	TG-SQ				0.4 bar	0.5 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	10 bar	0.5 bar	1.5 bar	6 bar
1/4	●	6SQ	2.4	1.3	1.8	2.0	2.3	3.2	4.5	6.1	6.6	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.

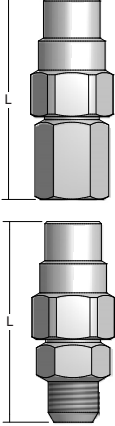
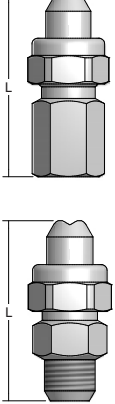
Other body sizes may be available. Contact your sales engineer for further information.

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.