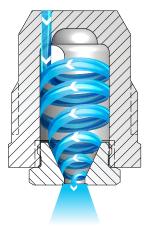
S STANDARD ANGLE SPRAY 📔 W WIDE ANGLE SPRAY

HOLLOW CONE

OVERVIEW: WHIRLJET IN-LINE, OFFSET AND DEFLECTED SPRAYS

- · Hollow cone spray pattern
- In-line versions ideal for dust control in mining operations
- BD versions have a lower profile projection for installation in a tee or pipe header
- In-line BDM features recessed orifice area to protect from damage; self-locking cap to prevent loss due to vibration; fiberglass-reinforced nylon inlet body
- BA offset style ideal for installations with physical space limitations
- Spray angles: Standard 43° to 94°, Wide 102° to 125°
- Deflected spray versions available with 120°, 150° and 180° included angle of spray at 10 psi (0.7 bar)
- Uniform spray distribution from .11 to 38 gpm (.41 to 145 lpm)
- Operating pressures up to 500 psi (35 bar)



WhirlJet BD, BDM and BA Nozzles

Liquid passes through a hole on the inlet side of the nozzle. The liquid then enters a whirlchamber where it spins in a circle at high speed. The rotation forces the liquid away from the center toward the edges. This causes the liquid to exit the orifice in a hollow cone pattern.

WHIRLJET OPTIONS



RELATIVE DROP SIZE



💧 100 to 500

500 to 1000

Drop size will vary based on flow rate and pressure.



1000 to 5000

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ORDERING INFORMATION





WHIRLJET BDM



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

WHIRLJET BA



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

DEFLECTOJET 8686



BSPT connections require the addition of a "B" prior to the nozzle number.

QUICK REFERENCE GUIDE

Model		Connection		Page Number		
	Connection	Size (in.)	Materials	Performance Data	Dimensions and Weights	
BD	М	3/8 to 1-1/2	Brass, 303 stainless steel (SS)	D29		
BD-W	М	3/8 to 3/4	Brass, 303 stainless steel (SS)	D30		
BDM	М	3/8	Nylon/Brass cap	D30	D32	
BA	М	3/8 to 1/2	Brass, 303 stainless steel (SS), 309 stainless steel (309SS)	D31		
8686	М	1/8 to 3/8	Brass, 303 stainless steel (SS)	D31		

M = male thread. 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.

D28

S STANDARD ANGLE SPRAY | W WIDE ANGLE SPRAY

S PERFORMANCE DATA: STANDARD ANGLE SPRAY



Inlet Conn. (in.)	Nozzle Type	Capacity Size	Inlet Dia. Nom. (mm)	Orifice Dia. Nom. (mm)	Flow Rate Capacity (liters per minute)						Spray Angle (°)		
	BA				0.4 bar	0.7 bar	1.5 bar	3 bar	4 bar	7 bar	0.5 bar	1.5 bar	6 bar
3/8	•	3	2.4	2.4	.86	1.1	1.7	2.4	2.7	3.6	52	64	77
	•	5	3.6	3.2	1.4	1.9	2.8	3.9	4.6	6.0	64	73	79
	•	8	4.8	4.0	2.3	3.1	4.5	6.3	7.3	9.6	62	70	74
	•	10	5.2	4.4	2.9	3.8	5.6	7.9	9.1	12.1	64	72	75
	•	15	6.4	5.6	4.3	5.7	8.4	11.8	13.7	18.1	64	72	74
	•	20	7.1	6.4	5.8	7.6	11.2	15.8	18.2	24	63	70	74
	•	25	7.5	7.5	7.2	9.5	14.0	19.7	23	30	63	70	74
1/2	•	25	9.5	6.4	7.2	9.5	14.0	19.7	23	30	63	66	71
	•	30	9.5	7.5	8.6	11.4	16.8	24	27	36	67	71	75
	•	40	9.5	9.1	11.5	15.3	22	32	36	48	72	76	78
	•	50	9.5	11.1	14.4	19.1	28	39	46	60	74	79	82
	•	60	9.5	13.1	17.3	23	34	47	55	72	77	82	86

Highlighted column shows the rated pressure.

WIDE ANGLE SPRAY

			1								
Inlet Conn. (in.)	Nozzle Type	Capacity Size	Flow Rate Capacity (liters per minute)								
	DeflectoJet® 8686		0.4 bar	0.7 bar	1.5 bar	3 bar	4 bar	6 bar	7 bar		
1/8	•	.37	1.1	1.4	2.1	3.0	3.4	4.2	4.5		
	•	.5	1.4	1.9	2.8	4.0	4.6	5.6	6.0		
	•	.75	2.2	2.9	4.2	5.9	6.8	8.4	9.0		
1/4	•	1	2.9	3.8	5.6	7.9	9.1	11.2	12.1		
	•	1.5	4.3	5.7	8.3	11.8	13.7	16.8	18.1		
	•	2	5.8	7.7	11.2	15.8	18.2	22	24		
	•	2.5	7.2	9.5	13.9	19.7	23	28	30		
3/8	•	3	8.8	11.6	17.0	24	27	34	36		
	•	3.5	10.4	13.7	20	28	32	39	42		
	•	4	11.9	15.7	23	32	36	45	48		
	•	4.5	12.9	17.1	25	36	41	50	54		
	•	5	14.4	19.1	28	39	46	56	60		

Highlighted column shows the rated pressure.



S STANDARD ANGLE SPRAY | W WIDE ANGLE SPRAY

DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	Hex. (in.)	A (mm)	B (mm)	C (mm)	Net Weight (kg)
	BD (M)	3/8	31.8	11/16	-	6.7	_	0.03
		1/2	37.3	7/8	-	8.0	-	0.06
		3/4	44.5	1-1/16	-	9.5	-	0.11
		1-1/2	66.7	2	-	8.0	-	0.60
B		3/8	31.8	11/16	-	6.7	-	0.03
	BD-W (M)	1/2	37.3	7/8	-	7.9	-	0.06
		3/4	44.4	1-1/16	-	9.5	-	0.11
	BDM (M)	3/8	32.5	11/16	6.7	_	_	0.01
	BA (M)	3/8	38.1	_	26.6	14.7	24.2	0.11
	(M)	1/2	55.6	-	42.9	14.7	27.4	0.27
	8686 (M)	1/8	30.2	1/2	_	_	_	0.02
		1/4	33.3	5/8	_	_	_	0.03
		3/8	44.5	7/8	_	-	_	0.08

Based on the largest/heaviest version of each type.