

Performance: Metric Units

75 SERIES

■ TAPER RING NOZZLE: 24° Trajectory

Pressure BAR	0.40 in 10.2 mm		0.45 in 11.4 mm		0.50 in 12.7 mm		0.55 in 14.0 mm		0.60 in 15.2 mm		0.65 in 16.5 mm		0.70 in 17.8 mm		0.75 in 19.1 mm		0.80 in 20.3 mm	
	m ³ /hr	Rad. (m)	m ³ /hr	Rad. (m)	m ³ /hr	Rad. (m)	m ³ /hr	Rad. (m)	m ³ /hr	Rad. (m)	m ³ /hr	Rad. (m)	m ³ /hr	Rad. (m)	m ³ /hr	Rad. (m)	m ³ /hr	Rad. (m)
1.75	-	-	-	-	-	-	9.5	22.5	11.5	24.0	13.4	25.0	15.7	26.0	18.2	27.0	20.6	28.0
2.0	-	-	-	-	8.3	24.0	10.2	24.0	12.2	25.0	14.4	26.5	16.8	27.5	19.3	28.5	22.0	29.5
2.5	-	-	7.5	24.0	9.3	25.5	11.4	26.0	13.7	27.5	16.0	28.5	18.7	29.5	21.5	31.0	24.4	32.0
3.0	6.4	23.5	8.2	25.0	10.2	27.0	12.4	28.0	14.9	29.5	17.6	31.0	20.4	32.0	23.4	33.0	26.6	34.5
3.5	6.9	24.5	8.9	26.5	11.0	28.5	13.4	30.0	16.1	31.5	19.0	33.0	22.0	34.0	25.2	35.5	28.6	36.5
4.0	7.4	25.5	9.5	27.5	11.8	30.0	14.3	31.5	17.2	33.0	20.3	34.5	23.4	36.0	26.8	37.0	30.5	38.5
4.5	7.9	26.5	10.0	29.0	12.5	31.5	15.2	33.0	18.2	34.5	21.5	36.0	24.8	37.5	28.3	39.0	32.2	40.0
5.0	8.3	27.0	10.5	30.0	13.2	32.5	16.0	34.5	19.2	36.0	22.7	37.5	26.1	39.0	29.8	40.5	33.9	41.5
5.5	8.8	27.5	11.0	31.5	13.8	34.0	16.8	35.5	20.1	37.0	23.8	39.0	27.3	40.5	31.2	41.5	35.5	43.0



100 SERIES

TAPER BORE NOZZLE: 24° Trajectory

Pressure BAR	0.50 in 12.7 mm		0.55 in 14.0 mm		0.60 in 15.2 mm		0.65 in 16.5 mm		0.70 in 17.8 mm		0.75 in 19.1 mm		0.80 in 20.3 mm		0.85 in 21.6 mm		0.90 in 22.9 mm		1.00 in 25.4 mm	
	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)
2.75	10.4	29.5	13.0	31.0	14.9	32.5	17.7	34.0	20.5	35.0	23.3	36.5	26.6	38.0	30.4	39.0	34.0	40.0	-	-
3.0	10.8	30.0	13.5	31.5	15.6	33.0	18.5	34.5	21.4	36.0	24.4	37.5	27.7	39.0	31.7	40.0	35.5	41.0	43.3	43.5
3.5	11.7	31.0	14.5	33.0	16.9	34.5	20.0	36.0	23.1	37.5	26.3	39.0	30.0	40.5	34.3	42.0	38.3	43.0	46.8	46.0
4.0	12.5	32.5	15.5	34.0	18.1	36.0	21.3	37.5	24.7	39.0	28.2	40.5	32.0	42.5	36.6	43.5	40.8	44.5	50.0	48.0
4.5	13.2	33.5	16.3	35.5	19.3	37.0	22.6	39.0	26.2	40.5	29.9	42.0	34.0	44.0	38.9	45.0	43.3	46.5	53.0	50.0
5.0	13.9	34.5	17.1	36.5	20.3	38.5	23.8	40.5	27.6	42.0	31.5	43.5	35.8	45.0	41.0	46.5	45.5	48.0	55.9	52.0
5.5	14.6	36.0	17.9	38.0	21.4	39.5	25.0	41.5	29.0	43.5	33.1	45.0	37.5	46.5	43.0	48.0	47.7	49.5	58.7	53.5
6.0	15.2	37.0	18.7	39.0	22.3	41.0	26.1	43.0	30.3	44.5	34.5	46.0	39.2	47.5	44.9	49.0	49.8	50.5	61.3	55.0
6.5	15.8	38.0	19.4	40.0	23.3	42.0	27.2	44.0	31.5	46.0	36.0	47.5	40.8	49.0	46.7	50.5	51.8	52.0	63.8	56.0
7.0	16.4	39.0	20.0	41.0	24.2	43.0	28.2	45.0	32.7	47.0	37.3	48.5	42.3	50.0	48.4	51.5	53.7	53.0	66.2	57.0
7.5	17.0	40.0	20.7	42.0	25.1	44.0	29.2	46.0	33.8	47.5	38.6	49.5	43.8	51.0	50.1	52.5	55.5	54.0	68.5	57.5

TAPER RING NOZZLE: 24° Trajectory

Pressure BAR	0.50 in 12.7 mm		0.55 in 14.0 mm		0.63 in 16.0 mm		0.67 in 17.0 mm		0.71 in 18.0 mm		0.75 in 19.0 mm		0.79 in 20.0 mm		0.83 in 21.0 mm		0.87 in 22.0 mm		0.91 in 23.0 mm		0.94 in 24.0 mm	
	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)
2.75	9.7	28.5	12.0	30.0	15.2	32.5	17.3	33.5	19.6	34.5	22.3	35.5	24.9	37.0	28.3	38.0	30.8	38.5	34.3	39.5	37.6	41.5
3.0	10.2	29.0	12.5	30.5	15.9	33.0	18.0	34.0	20.5	35.0	23.2	36.5	26.1	38.0	29.5	39.0	32.2	39.5	35.8	40.5	39.3	42.5
3.5	11.0	30.5	13.5	32.0	17.2	34.5	19.5	35.5	22.1	37.0	25.1	38.0	28.2	39.5	31.9	40.5	34.8	41.5	38.7	42.5	42.4	44.5
4.0	11.8	31.5	14.5	33.5	18.4	36.0	20.9	37.0	23.6	38.5	26.8	40.0	30.1	41.0	34.1	42.5	37.2	43.0	41.4	44.5	45.3	46.0
4.5	12.5	33.0	15.4	34.5	19.5	37.0	22.2	38.5	25.1	40.0	28.5	41.5	32.0	42.5	36.2	44.0	39.5	45.0	43.9	46.0	48.1	47.5
5.0	13.2	34.0	16.2	35.5	20.6	38.5	23.4	39.5	26.4	41.0	30.0	42.5	33.7	44.0	38.1	45.5	41.7	46.5	46.3	47.5	50.7	49.5
5.5	13.9	35.0	17.0	37.0	21.6	39.5	24.5	41.0	27.7	42.5	31.5	44.0	35.4	45.5	40.0	46.5	43.7	47.5	48.6	49.0	53.2	50.5
6.0	14.5	36.0	17.8	38.0	22.6	40.5	25.6	42.0	29.0	43.5	32.9	45.0	37.0	46.5	41.8	48.0	45.7	49.0	50.7	50.5	55.6	52.0
6.5	15.1	37.0	18.5	39.0	23.5	41.5	26.7	43.0	30.1	44.5	34.2	46.0	38.5	47.5	43.5	49.0	47.5	50.0	52.8	51.5	57.8	53.5
7.0	15.7	38.0	19.2	40.0	24.4	42.5	27.7	44.0	31.3	45.5	35.5	47.0	40.0	48.5	45.1	50.0	49.3	51.0	54.8	52.5	60.0	54.5
7.5	16.3	39.0	19.9	41.0	25.3	43.5	28.7	45.0	32.4	46.5	36.8	48.0	41.4	49.5	46.7	51.0	51.1	52.0	56.8	53.5	62.1	55.5

RING NOZZLE: 24° Trajectory

Pressure BAR	0.60 in 15.3 mm		0.71 in 18.0 mm		0.77 in 19.6 mm		0.81 in 20.6 mm		0.86 in 21.8 mm		0.89 in 22.6 mm		0.93 in 23.6 mm		0.96 in 24.4 mm	
	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)
2.75	10.7	28.5	15.0	31.5	17.8	32.0	20.5	32.5	23.3	34.0	26.5	35.5	30.4	36.0	34.2	36.5
3.0	11.1	29.0	15.7	32.5	18.6	33.0	21.4	33.5	24.3	35.0	27.6	36.5	31.7	37.5	35.7	38.0
3.5	11.9	30.5	16.9	34.0	20.0	34.5	23.0	35.5	26.3	37.0	29.7	39.0	34.3	39.5	38.5	40.0
4.0	12.7	32.0	18.1	35.5	21.4	36.0	24.6	37.0	28.1	39.0	31.7	41.0	36.6	41.5	41.1	42.5
4.5	13.4	33.0	19.2	36.5	22.7	37.5	26.1	38.5	29.8	40.5	33.6	42.5	38.9	43.5	43.5	44.5
5.0	14.1	34.0	20.3	38.0	24.0	39.0	27.5	40.0	31.3	42.0	35.3	44.5	41.0	45.0	45.8	46.0
5.5	14.7	35.0	21.3	39.0	25.1	40.0	28.8	41.5	32.9	43.5	37.0	45.5	43.0	46.5	48.0	47.5
6.0	15.3	36.0	22.2	40.0	26.3	41.0	30.0	43.0	34.3	44.5	38.6	47.0	44.9	48.0	50.0	49.0
6.5	15.9	37.0	23.1	40.5	27.3	42.0	31.2	44.0	35.7	46.0	40.1	48.0	46.7	49.0	52.0	50.5
7.0	16.5	37.5	24.0	41.5	28.4	43.0	32.4	45.5	37.1	47.0	41.6	49.0	48.4	50.0	54.0	51.5
7.5	17.0	38.0	24.9	42.0	29.4	44.0	33.5	46.5	38.3	47.5	43.0	49.5	50.1	50.5	55.8	52.5

200 SERIES

TAPER BORE NOZZLE: 27° Trajectory

Pressure BAR	1.05 in 26.7 mm		1.1 in 27.9 mm		1.2 in 30.5 mm		1.3 in 33.0 mm		1.4 in 35.6 mm		1.5 in 38.1 mm		1.6 in 40.6 mm		1.75 in 44.5 mm		1.9 in 48.3 mm	
	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)
4.0	55.9	52.0	63.7	54.0	73.6	56.5	86.1	58.5	99.4	62.0	114.7	65.0	130.5	67.0	155.7	71.0	184.1	74.5
4.5	59.4	54.0	67.6	56.0	78.1	58.5	91.3	61.0	105.4	64.0	121.6	67.0	138.4	69.5	165.1	73.5	195.2	77.0
5.0	62.6	55.5	71.4	58.0	82.3	60.5	96.3	63.5	111.2	66.5	128.1	69.5	145.9	72.0	174.1	76.0	205.6	79.5
5.5	65.7	57.0	75.0	60.0	86.3	62.5	101.0	65.5	116.6	68.5	134.3	71.5	153.0	74.0	182.6	78.5	215.5	81.5
6.0	68.7	58.5	78.4	61.5	90.1	64.5	105.5	67.0	121.8	70.0	140.2	73.0	159.8	76.0	190.7	80.5	224.9	84.0
6.5	71.5	60.0	81.6	63.0	93.8	66.0	109.9	69.0	126.8	72.0	145.9	75.0	166.3	78.0	198.5	82.5	234.0	86.0
7.0	74.3	61.5	84.8	64.5	97.3	67.0	114.0	70.5	131.6	73.5	151.4	76.5	172.5	79.5	206.0	84.5	242.7	88.0
7.5	76.9	62.5	87.8	65.5	100.7	68.5	118.0	71.5	136.3	75.0	156.6	78.5	178.6	81.5	213.2	86.0	251.1	89.5
8.0	79.5	63.5	90.8	66.5	104.0	69.5	121.9	72.5	140.7	76.5	161.7	80.0	184.4	83.0	220.2	87.5	259.2	91.5
8.5	81.9	64.0	93.6	67.0	107.2	70.5	125.7	73.5	145.1	77.5	166.7	81.0	190.1	84.5	227.0	89.0	267.1	93.0
9.0	84.3	65.0	96.4	68.0	110.3	71.0	129.4	74.0	149.3	78.5	171.5	82.5	195.6	85.5	233.6	90.0	274.7	94.5

RING NOZZLE: 27° Trajectory

Pressure BAR	1.29 in 32.8 mm		1.46 in 37.1 mm		1.56 in 39.6 mm		1.66 in 42.2 mm		1.74 in 44.2 mm		1.83 in 46.5 mm		1.93 in 49.0 mm	
	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)	m³/hr	Rad. (m)
3.5	52.4	49.5	68.8	54.0	80.3	56.5	93.3	59.5	107.4	62.0	122.3	64.0	146.0	66.5
4.0	56.1	51.5	73.5	56.0	85.9	58.5	99.7	62.0	114.8	64.0	130.6	66.5	156.0	69.0
4.5	59.5	53.0	78.0	58.0	91.2	60.5	105.7	63.5	121.6	66.0	138.5	68.5	165.4	71.0
5.0	62.7	54.5	82.2	59.5	96.2	62.5	111.4	65.5	128.2	67.5	146.0	70.0	174.3	73.0
5.5	65.8	56.0	86.2	61.0	100.9	64.0	116.8	67.0	134.3	69.5	153.1	72.0	182.7	75.0
6.0	68.7	57.5	90.1	62.5	105.5	65.5	121.9	68.5	140.3	71.0	159.8	73.5	190.8	76.5
6.5	71.5	58.5	93.7	64.0	109.8	67.0	126.9	70.0	145.9	72.5	166.3	75.0	198.5	78.0
7.0	74.3	60.0	97.3	65.0	114.0	68.0	131.6	71.0	151.4	73.5	172.5	76.0	206.0	79.5
7.5	76.9	61.0	100.7	66.0	118.1	69.5	136.2	72.5	156.6	74.5	178.6	77.5	213.2	81.0
8.0	79.4	62.0	104.0	67.0	122.0	70.0	140.6	73.5	161.7	75.5	184.4	78.5	220.1	82.0
8.5	81.9	62.5	107.2	68.0	125.8	71.0	144.9	74.0	166.6	76.5	190.0	79.5	226.8	83.0
9.0	84.2	63.5	110.3	69.0	129.5	71.5	149.1	75.0	171.4	77.0	195.5	80.5	233.4	84.0

Radii are based on a 24° trajectory for the 75, 100, and 150 Series and 27° trajectory for the 200 Series. The lower trajectory angles result in better wind fighting ability, but reduced throw distances. Throw reduction depends upon nozzle flow rate. In general, the throw distance is reduced approximately 3% with each 3° drop in trajectory angle. Use of the wedge insert to modify trajectory will affect distance. Big Gun® performance data has been obtained under ideal test conditions and may be adversely affected by wind, poor hydraulic entrance conditions or other factors. Test riser height of 3 feet (0.91 meters) above measurement surface. No representation regarding droplet condition, uniformity, application rate, or suitability for a particular application is made herein. Pressure refers to pressure at the nozzle.