

720/720G Series

Radius: 22'–55'
Flow rate: 0.85–11.62 GPM
40°–360° Full- and adjustable part-circle

Specifications

Radius:

720: 22'–38' (6,7–11,5m)
720G: 19'–38' (5,5–11,5m)

Flow rate (MultiMatrx adjustable-flow nozzle):

720: 3–9 GPM (11,3–34 LPM)
720G: 0.85–11.62 GPM (3,7–44,0 LPM)

Optimum nozzle performance:

65 psi (4,5 Bar)

Adjustable trajectory:

5°–25°

Recommended operating pressure range:

720: Electric: 40–120 psi (2,0–8,4 Bar)
Normally Open: 40–90 psi (2,0–6,2 Bar)
Check-O-Matic: 40–90 psi (2,0–6,2 Bar)
720G: 20–50 psi (1,7–3,5 Bar)

Standard pressure regulation:

720: 65 psi (4,5 Bar) (electric models only)
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Inlet:

720: 1" (25mm) female threaded NPT, ACME and BSP
720G: 3/4" threaded

Dimensions:

720: Pop-up to center of nozzle: 2 7/8" (73mm)
Body Height: 10" (250mm)
720G: Pop-up to center of nozzle: 2 5/8" (67mm)
Body Height: 7" (180mm)

Check-O-Matic:

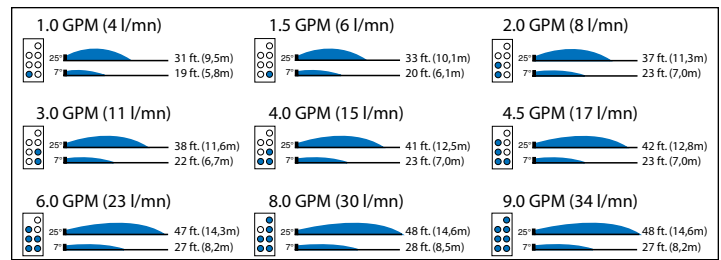
720: Maintains up to 37' (11,2m) of elevation change
720G: Maintains up to 10' (3,1m) of elevation change



Features

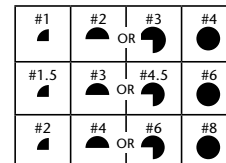
- Trujectory™ radius adjustment
- Full-circle and adjustable part-circle (40°–360°) models available
- High pop-up height to clear taller grasses
- All adjustments made from the top—wet or dry
- Balanced precipitation rates
- Time-proven planetary gear-drive design
- Variable reversing stator
- All internal components serviceable from the top of the sprinkler with Servi-Snap™
- Durable engineering plastic and stainless steel construction
- Effluent water models available

720G Series MultiMatrx Nozzle—Trujectory Performance @ 50 psi



720G MultiMatrx MPR Combinations

The following nozzle sets may be used in combinations to deliver a balanced precipitation rate.

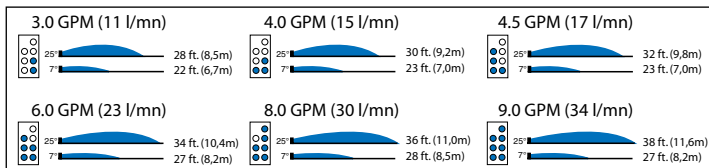


Combinations assume that all nozzles are operating at the same pressure. In addition, sprinklers can run off the same line if adequate flow exists.

720G—Apex at 50 psi

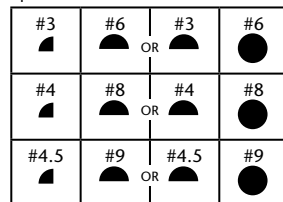
Nozzle Set	Max. Height of Spray	Distance from Sprinkler	Max. Height of Spray	Distance from Sprinkler
1	7'8" (2,3m)	15' (4,6m)	1'5" (0,4m)	9' (2,7m)
1.5	7'8" (2,3m)	15' (4,6m)	1'5" (0,4m)	9' (2,7m)
2	8'4" (2,5m)	19' (5,8m)	1'5" (0,4m)	10' (3,0m)
3	9'4" (2,8m)	22' (6,7m)	1'5" (0,4m)	10' (3,0m)
4	9'6" (2,9m)	22' (6,7m)	1'7" (0,5m)	12' (3,7m)
4.5	10'6" (3,2m)	27' (8,2m)	1'8" (0,5m)	13' (4,0m)
6	11'0" (3,4m)	28' (8,5m)	1'10" (0,6m)	14' (4,3m)
8	11'6" (3,5m)	30' (9,1m)	2'0" (0,6m)	15' (4,6m)
9	12'0" (3,7m)	31' (9,4m)	2'0" (0,6m)	15' (4,6m)

720 Series MultiMatrx Nozzle—Trujectory Performance @ 65 psi



720 MultiMatrx MPR Combinations

The following nozzle sets may be used in combinations to deliver a balanced precipitation rate.



Combinations assume that all nozzles are operating at the same pressure. In addition, sprinklers can run off the same line if adequate flow exists.

720—Apex at 65 psi

Nozzle GPM	25°		7°	
	Max. Height of Spray	Distance from Head	Max. Height of Spray	Distance from Head
3.0	9'4"	22'	1'5"	10'
4.0	9'6"	22'	1'7"	12'
4.5	10'6"	27'	1'8"	13'
6.0	11'0"	28'	1'10"	14'
8.0	11'6"	30'	2'	15'
9.0	12'0"	31'	2'	15'

Specifying Information—720G Series

72XG-E	
Arc	Optional
72XG	E
4—Full-circle 5—Part-circle	E—Effluent Model

Example: When specifying a full-circle 720G Sprinkler, you would specify: **724G**

Specifying Information—720 Series

72X-X-X-39X-E				
Body Arc	Threads	Valve-In-Head Type	Pressure Regulation*	Optional
72X	X	X	39X	E
4—Full-circle 5—Part-circle	0—NPT 4—ACME 5—BSP	1—N.O. Hydraulic 2—Check-O-Matic 6—Electric	6—65 psi	E—Effluent Model

Example: When specifying a full-circle 720 Series Sprinkler with NPT threads, electric valve and pressure regulation at 65 psi, you would specify: **724-06-39E**

720/720G Series

720 Series MultiMatrx Nozzle Performance @ 25° Trajectory—Metric

Nozzle Set	Base Pressure			LPM	Radius
	Bar	kPa	Kg/cm ²		
3.0	3,5	350	3,57	11,5	9,8
	4,5	450	4,59	13,0	9,8
	5,5	550	5,61	14,4	9,8
4.0	3,5	350	3,57	15,8	10,1
	4,5	450	4,59	17,8	10,7
	5,5	550	5,61	19,8	10,7
4.5	3,5	350	3,57	18,1	10,7
	4,5	450	4,59	20,5	11,0
	5,5	550	5,61	22,7	11,3
6.0	3,5	350	3,57	22,7	11,3
	4,5	450	4,59	26,1	11,9
	5,5	550	5,61	29,1	11,9
8.0	3,5	350	3,57	28,4	11,7
	4,5	450	4,59	32,7	12,8
	5,5	550	5,61	36,8	12,8
9.0	3,5	350	3,57	31,0	12,5
	4,5	450	4,59	36,6	13,4
	5,5	550	5,61	40,6	14,3

720 Series MultiMatrx Nozzle Performance @ 25° Trajectory—U.S.

Nozzle Set	psi	GPM	Radius	Prec. Rate*	
				△	□
3.0	50	3.00	32	0.24	0.28
	65	3.42	32	0.28	0.32
	80	3.81	32	0.31	0.36
4.0	50	4.16	33	0.32	0.37
	65	4.69	35	0.32	0.37
	80	5.25	35	0.36	0.41
4.5	50	4.75	35	0.32	0.37
	65	5.41	36	0.25	0.40
	80	6.02	37	0.37	0.42
6.0	50	5.95	37	0.36	0.42
	65	6.87	39	0.38	0.43
	80	7.71	39	0.42	0.49
8.0	50	7.43	38	0.43	0.50
	65	8.61	42	0.41	0.47
	80	9.75	42	0.46	0.53
9.0	50	8.14	41	0.40	0.47
	65	9.67	44	0.42	0.48
	80	10.75	47	0.41	0.47

720G Series MultiMatrx Low-pressure Nozzle Performance Data—Metric

Nozzle Set	Base Pressure			LPM	Radius	m ² /hr
	Bar	kPa	Kg/cm ²			
4.0	2,0	200	2,04	4,0	9,0	0,24
	2,5	250	2,55	4,4	9,2	0,26
	3,0	300	3,06	4,8	9,5	0,29
	3,5	350	3,57	5,1	9,5	0,30
	4,0	400	4,08	5,3	9,3	0,30
	4,5	450	4,59	5,5	9,2	0,30
6.0	5,0	500	5,10	5,7	9,2	0,30
	2,0	200	2,04	4,8	9,4	0,29
	2,5	250	2,55	5,3	9,8	0,32
	3,0	300	3,06	5,8	10,1	0,35
	3,5	350	3,57	6,3	10,1	0,38
	4,0	400	4,08	6,8	10,1	0,40
8.0	4,5	450	4,59	7,2	10,1	0,40
	5,0	500	5,10	7,5	9,8	0,40
	2,0	200	2,04	7,7	9,8	0,46
	2,5	250	2,55	8,5	10,7	0,51
	3,0	300	3,06	9,3	11,1	0,56
	3,5	350	3,57	10,0	11,3	0,60
11.0	4,0	400	4,08	10,5	11,6	0,63
	4,5	450	4,59	10,7	11,6	0,64
	5,0	500	5,10	11,0	11,5	0,70
	2,0	200	2,04	9,5	10,0	0,57
	2,5	250	2,55	10,8	11,0	0,65
	3,0	300	3,06	11,9	11,4	0,72
15.0	3,5	350	3,57	13,0	11,6	0,78
	4,0	400	4,08	13,9	11,8	0,83
	4,5	450	4,59	14,6	11,9	0,87
	5,0	500	5,10	15,3	11,8	0,90
	2,0	200	2,04	12,4	10,0	0,74
	2,5	250	2,55	14,3	11,0	0,86
17.0	3,0	300	3,06	15,9	11,9	0,95
	3,5	350	3,57	17,2	12,5	1,03
	4,0	400	4,08	18,4	12,6	1,11
	4,5	450	4,59	19,5	12,8	1,17
	5,0	500	5,10	20,2	12,8	1,20
	2,0	200	2,04	13,7	10,0	0,82
23.0	2,5	250	2,55	15,7	11,4	0,94
	3,0	300	3,06	17,8	12,2	1,07
	3,5	350	3,57	19,4	12,8	1,16
	4,0	400	4,08	20,8	13,2	1,25
	4,5	450	4,59	21,9	13,7	1,32
	5,0	500	5,10	23,0	14,0	1,40
30.0	2,0	200	2,04	19,1	10,3	1,15
	2,5	250	2,55	21,9	12,3	1,31
	3,0	300	3,06	24,7	13,4	1,48
	3,5	350	3,57	26,1	14,3	1,56
	4,0	400	4,08	27,7	15,1	1,66
	4,5	450	4,59	29,3	15,5	1,76
34.0	5,0	500	5,10	30,6	15,9	1,84
	2,0	200	2,04	21,8	10,3	1,31
	2,5	250	2,55	26,9	12,3	1,61
	3,0	300	3,06	29,1	13,6	1,75
	3,5	350	3,57	31,8	14,6	1,91
	4,0	400	4,08	34,2	15,4	2,05
34.0	4,5	450	4,59	36,3	15,8	2,18
	5,0	500	5,10	38,2	16,5	2,29
	2,0	200	2,04	24,7	10,4	1,48
	2,5	250	2,55	28,6	12,3	1,72
	3,0	300	3,06	32,4	13,6	1,95
	3,5	350	3,57	35,5	14,6	2,13
34.0	4,0	400	4,08	38,1	15,5	2,29
	4,5	450	4,59	40,7	16,1	2,44
	5,0	500	5,10	42,7	16,5	2,56

720G Series MultiMatrx Low-pressure Nozzle Performance Data—U.S.

Nozzle Set	psi	GPM	Radius	Prec. Rate*		Nozzle Set	GPM	Radius	Prec. Rate*			
				△	□				△	□		
1.0	25	0.85	29	0.11	0.10	4.5	3.23	27	0.49	0.43		
	30	0.94	30	0.12	0.10		3.68	30	0.45	0.39		
	35	1.02	31	0.12	0.10		4.09	34	0.39	0.34		
	40	1.08	31	0.12	0.11		4.42	36	0.38	0.33		
	45	1.12	31	0.13	0.11		4.71	39	0.34	0.30		
	50	1.17	31	0.14	0.12		4.98	39	0.36	0.32		
	55	1.21	31	0.14	0.12		5.23	40	0.36	0.31		
	60	1.24	32	0.13	0.12		5.41	40	0.38	0.33		
	65	1.28	32	0.14	0.12		5.62	41	0.37	0.32		
	70	1.31	31	0.15	0.13		5.84	41	0.39	0.33		
	75	1.34	30	0.17	0.14		6.00	42	0.38	0.33		
	1.5	25	1.05	25	0.19		0.16	6.0	4.00	28	0.57	0.49
		30	1.15	27	0.18		0.15		4.56	31	0.53	0.46
		35	1.25	29	0.17		0.11		5.05	35	0.46	0.46
		40	1.33	30	0.16		0.14		5.51	35	0.45	0.39
45		1.42	31	0.16	0.14	5.90	39		0.43	0.35		
50		1.49	31	0.17	0.15	6.27	41		0.41	0.36		
55		1.35	31	0.18	0.16	6.61	42		0.42	0.36		
60		1.60	30	0.20	0.17	6.87	43		0.41	0.36		
65		1.66	30	0.21	0.18	7.14	44		0.41	0.36		
70		1.70	30	0.21	0.18	7.43	44		0.43	0.37		
75		1.75	30	0.22	0.19	7.68	44		0.44	0.38		
2.0		25	1.44	27	0.22	0.19	8.0		5.02	28	0.71	0.62
		30	1.65	29	0.22	0.19			5.63	31	0.65	0.56
		35	1.82	32	0.20	0.17			6.28	35	0.57	0.49
		40	1.96	33	0.20	0.17			6.84	38	0.53	0.46
	45	2.08	31	0.20	0.17	7.36		42	0.46	0.40		
	50	2.15	34	0.21	0.18	7.85		43	0.47	0.41		
	55	2.29	35	0.21	0.18	8.26		45	0.45	0.39		
	60	2.39	35	0.22	0.19	8.61		45	0.47	0.41		
	65	2.48	36	0.21	0.18	8.99		45	0.49	0.43		
	70	2.57	36	0.22	0.19	9.29		46	0.49	0.42		
	75	2.64	37	0.21	0.19	9.61		47	0.48	0.42		
	3.0	25	1.85	26	0.30	0.26		9.0	5.57	29	0.74	0.64
		30	2.09	28	0.30	0.26			6.25	33	0.64	0.55
		35	2.34	32	0.25	0.22			6.96	37	0.57	0.49
		40	2.54	33	0.26	0.32			7.58	39	0.55	0.48
45		2.73	34	0.26	0.23	8.16	42		0.51	0.45		
50		2.89	34	0.28	0.24	8.75	44		0.50	0.44		
55		3.04	35	0.28	0.24	9.23	46		0.49	0.42		
60		3.15	35	0.29	0.25	9.67	47		0.49	0.42		
65		3.30	36	0.28	0.25	10.09	49		0.47	0.40		
70		3.42	36	0.29	0.25	10.42	49		0.48	0.42		
75		3.55	37	0.29	0.25	10.89	50		0.48	0.42		
4.0		25	2.73	26	0.45	0.39	= Nozzles not recommended at this pressure.					
		30	3.09	30	0.38	0.33	= Optimum nozzle performance.					
		35	3.47	33	0.35	0.31	* △ Precipitation rates are for triangular spacing, shown in inches per hour, calculated at 50% of diameter.					
		40	3.72	34	0.36	0.31	□ Precipitation rates are for square spacing, shown in inches per hour, calculated at 50% of diameter.					
	45	4.06	35	0.37	0.32	All performance specifications are based on the stated working pressure available at the base of the sprinkler.						
	50	4.31	36	0.37	0.32	Radius shown in feet. Data based on 360°.						
	55	4.52	38	0.35	0.30							
	60	4.69	38	0.36	0.31							
	65	4.88	39	0.36	0.31							
	70	5.05	39	0.37	0.32							
	75	5.21	39	0.38	0.33							

720/720G Series