

K-RAIN VARIABLE ARC NOZZLES

PERFORMANCE SPECIFICATIONS FOR KV & KVF NOZZLES

ARC	PRESSURE (PSI)	8' GREEN		10' BLUE		12' BROWN		15' BLACK		17' GRAY-KV ONLY	
		Radius (Ft)	Flow (GPM)	Radius (Ft)	Flow (GPM)	Radius (Ft)	Flow (GPM)	Radius (Ft)	Flow (GPM)	Radius (Ft)	Flow (GPM)
45	20	9	0.5	12	0.5	12	0.8	16	0.9	19	1.2
	30	10	0.8	13	0.8	14	0.9	17	1.1	19	1.3
	40	10	1.0	13	1.0	14	1.1	18	1.3	20	1.4
	50	11	1.1	14	1.1	15	1.2	19	1.4	20	1.6
90	20	9	0.7	12	0.7	12	1.1	15	1.3	18	1.7
	30	9	1.1	12	1.1	13	1.3	17	1.6	18	1.8
	40	10	1.4	13	1.4	14	1.5	18	1.8	19	2.0
	50	11	1.5	14	1.5	15	1.7	19	2.0	20	2.2
120	20	8	1.1	11	1.1	11	1.4	14	1.7	17	1.8
	30	9	1.4	12	1.4	12	1.6	16	2.1	18	2.2
	40	10	1.7	13	1.7	13	2.0	17	2.3	19	2.3
	50	10	1.9	13	1.9	14	2.2	18	2.6	19	2.6
180	20	8	1.4	11	1.4	11	1.6	14	1.8	17	1.9
	30	8	1.6	11	1.6	12	1.8	15	2.3	18	2.4
	40	9	1.8	12	1.8	13	2.2	16	2.6	19	2.6
	50	10	2.0	13	2.0	14	2.4	18	2.8	19	2.9
240	20	8	1.3	10	1.3	11	1.8	14	2.4	16	2.5
	30	8	1.9	11	1.9	12	2.3	15	2.9	17	3.1
	40	9	2.2	12	2.2	13	2.4	16	3.2	18	3.2
	50	9	2.5	12	2.5	13	2.9	17	3.7	18	3.6
270	20	8	1.7	10	1.7	11	1.9	14	2.7	16	2.9
	30	8	2.0	10	2.0	12	2.4	15	3.2	17	3.4
	40	8	2.3	11	2.3	12	2.6	16	3.6	18	4.0
	50	9	2.6	12	2.6	13	3.0	16	4.0	18	4.5
360	20	8	2.2	10	2.2	11	2.8	13	3.4	15	3.5
	30	8	2.7	10	2.7	12	3.1	15	4.2	17	4.4
	40	8	3.0	11	3.0	12	3.5	15	4.7	17	4.9
	50	8	3.5	12	3.5	13	3.9	16	5.3	18	5.4

METRIC

ARC	PRESSURE		8' GREEN		10' BLUE		12' BROWN		15' BLACK		17' GRAY-KV ONLY	
	kPa	BARS	Radius (M)	Flow (L/M)	Radius (M)	Flow (L/M)	Radius (M)	Flow (L/M)	Radius (M)	Flow (L/M)	Radius (M)	Flow (L/M)
45	138	1.38	2.7	1.9	3.7	1.9	3.7	3.0	4.9	3.4	5.8	4.5
	207	2.07	3.0	3.0	4.0	3.0	4.3	3.4	5.2	4.2	5.8	4.9
	276	2.76	3.0	3.8	4.0	3.8	4.3	4.2	5.5	4.9	6.1	5.3
	345	3.45	3.4	4.2	4.3	4.2	4.6	4.5	5.8	5.3	6.1	6.1
90	138	1.38	2.7	2.6	3.7	2.6	3.7	4.2	4.6	4.9	3.7	2.6
	207	2.07	2.7	4.2	3.7	4.0	4.0	4.9	5.2	6.1	5.5	6.8
	276	2.76	3.0	5.3	4.0	5.3	4.3	5.7	5.5	6.8	5.8	7.6
	345	3.45	3.4	5.7	4.3	5.7	4.6	6.4	5.8	7.6	6.1	8.3
120	138	1.38	2.4	4.2	3.4	4.2	3.4	5.3	4.3	6.4	5.2	6.8
	207	2.07	2.7	5.3	3.7	5.3	3.7	6.1	4.9	7.9	5.5	8.3
	276	2.76	3.0	6.4	4.0	6.4	4.0	7.6	5.2	8.7	5.8	8.7
	345	3.45	3.0	7.2	4.0	7.2	4.3	8.3	5.5	9.8	6.1	9.8
180	138	1.38	2.4	5.3	3.4	5.3	3.4	6.1	4.3	6.8	5.2	7.2
	207	2.07	2.4	6.1	3.4	6.1	3.7	6.8	4.6	8.7	5.5	9.1
	276	2.76	2.7	6.8	3.7	6.8	4.0	8.3	4.9	9.8	5.8	9.8
	345	3.45	3.0	7.6	4.0	7.6	4.3	9.1	5.5	10.6	5.8	11.0
240	138	1.38	2.4	4.9	3.0	4.9	3.4	6.8	4.3	9.1	4.9	9.5
	207	2.07	2.4	7.2	3.4	7.2	3.7	8.7	4.6	11.0	5.2	11.7
	276	2.76	2.7	8.3	3.7	8.3	4.0	9.1	4.9	12.1	5.5	12.1
	345	3.45	2.7	9.5	3.7	9.5	4.0	11.0	5.2	14.0	5.5	13.6
270	138	1.38	2.4	6.4	3.0	6.4	3.4	7.2	4.3	10.2	4.9	11.0
	207	2.07	2.4	7.6	3.0	7.6	3.7	9.1	4.6	12.1	5.2	12.9
	276	2.76	2.4	8.7	3.4	8.7	3.7	9.8	4.9	13.6	5.5	15.1
	345	3.45	2.7	9.8	3.7	9.8	4.0	11.4	4.9	15.1	5.5	17.0
360	138	1.38	2.4	8.3	3.0	8.3	3.4	10.6	4.0	12.9	4.6	13.2
	207	2.07	2.4	10.2	3.0	10.2	3.7	11.7	4.6	15.9	5.2	16.7
	276	2.76	2.4	11.4	3.4	11.4	3.7	13.2	4.6	17.8	5.2	18.5
	345	3.45	2.4	13.2	3.7	13.2	4.0	14.8	4.9	20.1	5.5	20.4

ROTTORS

SPRAYS & NOZZLES

ELECTRIC VALVES

CONTROLLERS

INDEX VALVES / RCW

CHARTS

FIXED PATTERN MALE / FEMALE THREADED NOZZLES PERFORMANCE

12' ft.					15' ft.				
NOZZLE	NUMBER	PRESSURE (PSI)	RADIUS (FT.)	FLOW (GPM)	NOZZLE	NUMBER	PRESSURE (PSI)	RADIUS (FT.)	FLOW (GPM)
	P12Q / FN12Q	20	11'	0.5		P15Q / FN15Q	20	15'	0.7
		25	12'	0.7			30	16'	0.9
		40	13'	0.8			40	17'	1.1
		50	14'	0.9			50	18'	1.2
	P12H / FN12H	20	11'	0.9		P15H / FN15H	20	14'	1.4
		25	12'	1.1			30	15'	1.7
		40	13'	1.4			40	16'	2.0
		50	14'	1.5			50	17'	2.2
	P12TQ / FN12TQ	20	12'	1.2		P15TQ / FN15TQ	20	13'	2.0
		25	12'	1.4			30	15'	2.5
		40	14'	1.7			40	16'	2.9
		50	15'	2.0			50	16'	3.2
	P12F / FN12F	20	10'	1.6		P15F / FN15F	20	13'	2.9
		25	12'	1.8			30	15'	3.6
		40	13'	2.1			40	16'	4.1
		50	14'	2.4			50	17'	4.6

SPECIAL PATTERNS						
PATTERN		MALE#	FEMALE#	PRESSURE (PSI)	RADIUS (FT.)	FLOW (GPM)
CENTER STRIP		15CS	FN15CS	20 30	4' x 24' 4' x 30'	0.8 1.0
END STRIP		15ES	FN15ES	20 30	4' x 12' 4' x 15'	0.4 0.5
SIDE STRIP		15SS	FN15SS	20 30	4' x 28' 5' x 32'	1.1 1.3
HIGH LOW		15HL	FN15HL	20 30	H 14' x L4' x 28' H 15' x L5' x 32'	2.5 3.0

METRIC

12' ft.					15' ft.				
NOZZLE	NUMBER	PRESSURE (kPa / BAR)	RADIUS (M)	FLOW (L/M)	NOZZLE	NUMBER	PRESSURE (kPa / BAR)	RADIUS (M)	FLOW (L/M)
	P12Q / FN12Q	150 1.5	3.4	1.9		P15Q / FN15Q	150 1.5	4.6	2.6
		200 2.0	3.7	2.6			200 2.0	4.9	3.4
		300 3.0	4.0	3.0			300 3.0	5.2	4.2
		350 3.5	4.3	3.4			350 3.5	5.5	4.5
	P12H / FN12H	150 1.5	3.4	3.4		P15H / FN15H	200 2.0	4.3	5.3
		200 2.0	3.7	4.2			300 3.0	4.6	6.4
		300 3.0	4.0	5.3			400 4.0	4.9	7.6
		350 3.5	4.3	5.7			500 5.0	5.2	8.3
	P12TQ / FN12TQ	150 1.5	3.7	4.5		P15TQ / FN15TQ	200 2.0	4.0	7.6
		200 2.0	3.7	5.3			300 3.0	4.6	9.5
		300 3.0	4.3	6.4			400 4.0	4.9	11.0
		350 3.5	4.6	7.6			500 5.0	4.9	12.1
	P12F / FN12F	150 1.5	3.0	6.1		P15F / FN15F	200 2.0	4.0	11.0
		200 2.0	3.7	6.8			300 3.0	4.6	13.6
		300 3.0	4.0	7.9			400 4.0	4.9	15.5
		350 3.5	4.3	9.1			500 5.0	5.2	17.4

SPECIAL PATTERNS					
PATTERN		NUMBER	PRESSURE (kPa / BAR)	RADIUS (M)	FLOW (L/M)
CENTER STRIP		15CS / FN15CS	150 1.5 200 2.0	1.2 x 7.3 1.2 x 9.1	3.0 3.8
END STRIP		15ES / FN15ES	150 1.5 200 2.0	1.2 x 7.3 1.2 x 4.6	1.5 1.9
SIDE STRIP		15SS / FN15SS	150 1.5 200 2.0	1.2 x 8.5 1.5 x 9.8	4.2 4.9
HIGH LOW		15HL / FN15HL	150 1.5 200 2.0	4.3 x 1.2 x 8.5 4.6 x 1.5 x 9.8	9.5 11.4

Data represents test results in zero wind. Adjust for local conditions. Radius may be reduced with nozzle retention screw.

ROTORs

SPRAYS & NOZZLES

ELECTRIC VALVES

CONTROLLERS

INDEX VALVES / RCW

CHARTS