

FLEXIBLE SOLUTIONS ADDENDUM

WICK® Value Protection pumps can be paired with various sprinkler setups to create a water barrier defense against wildfire. Here we've showcased four setup styles, listing the basic benefits and components. These would be customized to meet the unique needs of each property. Our WICK® Value Protection lineup offers pumps of varying performance levels to meet most system volume and pressure requirements (GPM/PSI).

TOWER SPRINKLERS

SEE VIDEO

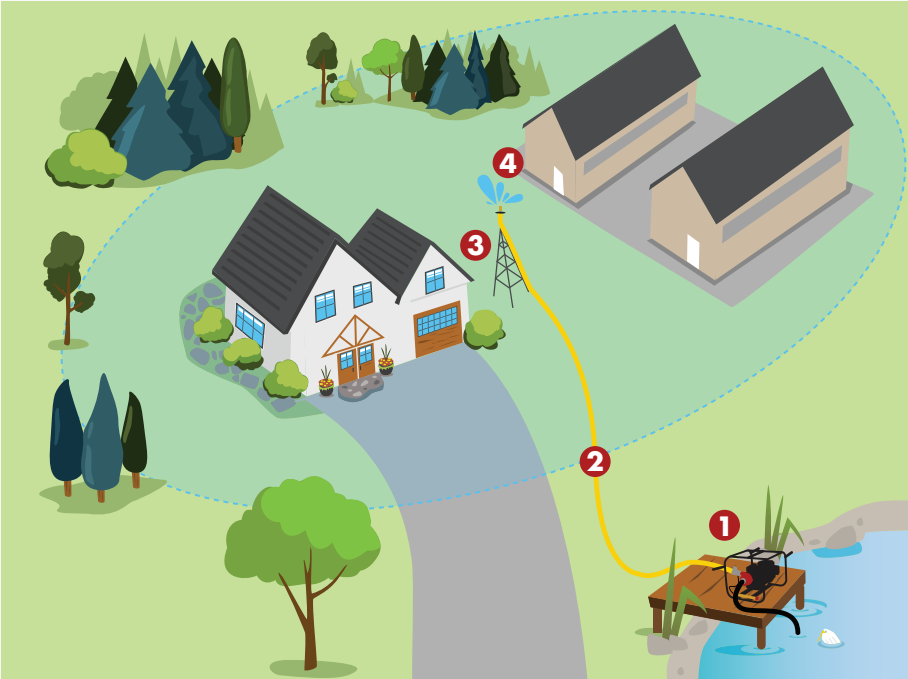


Ideal for multiple structures or larger properties, tower setups use mounted industrial irrigation sprinklers to offer a wide range of protection [up to 160' radius per sprinkler].

Within minutes, a water barrier of mist is created, soak all surfaces and preventing combustion. Works best as a permanent or semi-permanent installation.

COMPONENTS:

1. Pump Setup
2. Discharge Hose
3. Tower structure
4. Irrigation Sprinkler



TOWER IRRIGATION STYLE SPRINKLERS



MID RANGE SPRINKLER



Inlet 1.25" NPT 70FLSPALI23 Buckner brass irrigatjoin sprinkler
Nozzles 15/32" and 0.5"
Weight 5 lbs (approx)

Performance:

- Pressure: 25-100 psi (1.7-6.9 bar)
- Flow Rate: 17-130 gpm (64-492 lpm)
- Radius: 52-108 ft. (15.8-32.9 meters)
- Trajectory Angle: 17°

Fixed: 0.5" tip with side tip Nozzle:

100 PSI
68 GPM
96 feet

Detailed
Performance
charts



EXTENDED RANGE SPRINKLER



Inlet 1.5" NPT Nelson Cannons 70FLSP-NF075 70FLSP-NSR075
Nozzles 0.45" and 0.5" Nelson Cannons 70FLSP-NF100 70FLSP-NSR100
Weight 12 lbs (approx) Nelson tip 70FLSP-NZT075 0.45" / 11.43mm
Nelson tip 70FLSP-NZT100 0.50" / 12.7mm

Performance:

Pressure: 40-110 psi (1.75-7.6 bar)
Flow: 25-160 gpm (95-606 lpm)
Radius: 75-160 ft (23-49 meters)
Trajectory: 18°, 21°, 24°, 43°

Fixed: single 0.5" Nozzle:

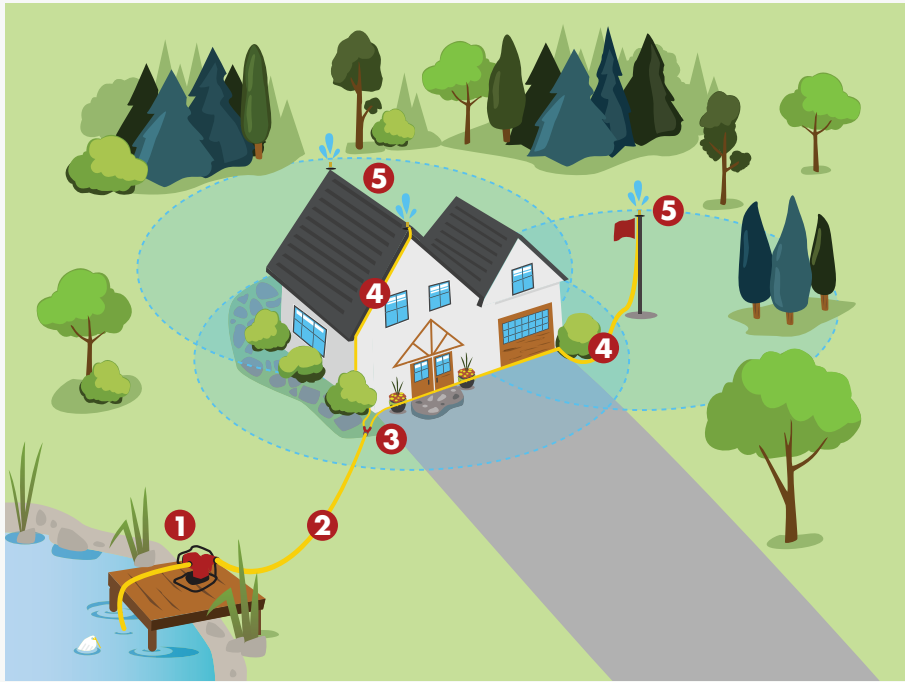
100 PSI
72 GPM
130 Feet

Detailed
Performance
charts



FLEXIBLE SOLUTIONS

WICK® Value Protection pumps can be paired with various sprinkler setups to create a water barrier defense against wildfire. Here we've showcased four setup styles, listing the basic benefits and components. These would be customized to meet the unique needs of each property. Our WICK® Value Protection lineup offers pumps of varying performance levels to meet most system volume and pressure requirements (GPM/PSI).



SEE VIDEO



ROOFTOP SPRINKLERS

For individual structures or smaller properties, rooftop sprinklers offer a simple setup with an expandable range for quick and effective protection [up to 50' radius per sprinkler]. These setups ideal for homeowners and cottages as permanent, seasonal or temporary installations on rooftops or flagpoles.

COMPONENTS:

1. Pump Setup
2. Discharge Hose
3. Wye / Water Thief
4. Sprinkler Hose(s)
5. Roof/Pole Mounted Sprinkler(s)



ROOFTOP / FLAGPOLE SPRINKLERS

Inlet 0.75" NPT
Nozzles 1/4" and 3/8"
Weight 1.0 lbs (approx)

Operating range:

35 to 80 PSI (2.4 to 5.5 bar)
10.6 to 15.7 GPM (40.1 to 59.4 lpm)
50 to 58 foot radius (15.2 to 17.7 meters)



Detailed
Performance
charts



MID RANGE SPRINKLER



PERFORMANCE CHARTS

AI123				AI123				AI123				AI123			
23° Trajectory				23° Trajectory				23° Trajectory				23° Trajectory			
Nozzle Code	Pressure PSI	Radius ft.	Flow GPM	Nozzle Code	Pressure bars	Radius meters	Flow m/hr.	Nozzle Code	Pressure PSI	Radius ft.	Flow GPM	Nozzle Code	Pressure bars	Radius meters	Flow m/hr.
22/PG	55	73	24.9	22/PG	3.9	22.3	5.7	22/14	55	73	34.9	22/14	3.9	22.3	7.9
	60	75	25.8		4.2	22.9	5.9		60	75	36.5		4.2	22.9	8.3
	65	77	26.9		4.6	23.5	6.1		65	77	38.0		4.6	23.5	8.6
	70	80	27.0		4.9	24.4	6.1		70	80	38.8		4.9	24.4	8.8
	75	81	28.9		5.3	24.7	6.6		75	81	41.0		5.3	24.7	9.3
	80	81	30.4		5.6	24.7	6.9		80	81	42.6		5.6	24.7	9.7
	85	81	31.1		6.0	24.7	7.1		85	81	43.8		6.0	24.7	9.9
	90	83	32.7		6.3	25.3	7.4		90	83	44.0		6.3	25.3	10.0
24/PG*	95	85	32.8	24/PG*	6.7	25.9	7.5	24/14*	95	85	45.6	24/14*	6.7	25.9	10.4
	55	75	29.6		3.9	22.9	6.7		55	77	35.7		3.9	23.5	8.1
	60	79	30.8		4.2	24.1	7.0		60	79	37.2		4.2	24.1	8.5
	65	81	32.0		4.6				65	81	38.7		4.6	24.7	8.8
	70	83	33.3		4.9				70	83	40.2		4.9	25.3	9.1
	75	85	34.7		5.3				75	85	41.7		5.3	25.9	9.5
	80	86	35.7		5.6				80	86	43.2		5.6	25.9	9.8
	85	87	36.0		6.0				85	87	44.7		6.0	26.2	10.2
26/PG	90	89	38.3	26/PG	6.3			26/14	90	89	46.2	26/14	6.3	26.5	10.5
	95	91	39.1		6.7				95	91	46.9		6.7	26.5	10.7
	55	75	32.9		3.9				55	75	34.9		3.9	22.9	9.9
	60	76	34.4		4.2				60	76	36.5		4.2	23.2	10.6
	65	77	35.8		4.6				65	77	38.0		4.6	23.5	11.0
	70	77	37.2		4.9				70	77	38.8		4.9	23.5	11.4
	75	77	38.5		5.3				75	77	40.2		5.3	23.5	11.9
	80	78	39.9		5.6				80	78	41.7		5.6	23.8	12.3
28/PG	85	79	41.2	28/PG	6.0	24.1	9.4	28/14	85	79	56.0	28/14	6.0	24.1	12.7
	90	79	42.3		6.3	24.1	9.6		90	79	57.9		6.3	24.1	13.2
	95	79	43.3		6.7	24.1	9.8		95	79	59.6		6.7	24.1	13.5
	55	83	39.7		3.9	25.3	9.0		55	83	49.1		3.9	25.3	11.2
	60	86	41.6		4.2	26.2	9.4		60	86	51.5		4.2	26.2	11.7
	65	87	43.3		4.6	26.5	9.8		65	87	53.8		4.6	26.5	12.2
	70	89	45.1		4.9	27.1	10.2		70	89	55.9		4.9	27.1	12.7
	75	90	46.8		5.3	27.4	10.6		75	90	57.9		5.3	27.4	13.2
32/PG	80	91	48.0	32/PG	5.6	27.7	10.9	32/16	80	91	60.0	32/16	5.6	27.7	13.6
	85	93	50.0		6.0	28.3	11.4		85	93	62.0		6.0	28.3	14.1
	90	95	51.5		6.3	29.0	11.7		90	95	63.9		6.3	29.0	14.5
	95	96	53.0		6.7	29.3	12.0		95	96	65.8		6.7	29.3	14.9
	55	89	50.7		3.9	27.1	11.5		55	89	63.9		3.9	27.1	14.5
	60	91	53.0		4.2	27.7	12.0		60	91	67.0		4.2	27.7	15.2
	65	93	55.3		4.6	28.3	12.6		65	93	70.0		4.6	28.3	15.9
	70	94	57.7		4.9	28.7	13.1		70	94	72.6		4.9	28.7	16.5
36/PG	75	96	59.6	36/PG	5.3	29.3	13.5	36/16	75	96	75.4	36/16	5.3	29.3	17.1
	80	101	63.0		5.6	30.8	14.3		80	101	75.6		5.6	30.8	17.2
	85	102	63.5		6.0	31.1	14.4		85	102	80.5		6.0	31.1	18.3
	90	103	65.3		6.3	31.4	14.8		90	103	83.6		6.3	31.4	19.0
	95	105	67.1		6.7	32.0	15.2		95	105	85.0		6.7	32.0	19.3
	55	96	63.2		3.9	29.3	14.4		55	96	76.8		3.9	29.3	17.4
	60	97	65.5		4.2	29.6	14.9		60	97	80.5		4.2	29.6	18.3
	65	99	69.4		4.6	30.2	15.8		65	99	84.1		4.6	30.2	19.1
40/PG	70	101	72.2	40/PG	4.9	30.8	16.4	40/16	70	101	87.4	40/16	4.9	30.8	19.9
	75	102	74.9		5.3	31.1	17.0		75	102	90.7		5.3	31.1	20.6
	80	104	77.5		5.6	31.7	17.6		80	104	93.6		5.6	31.7	21.3
	85	105	80.0		6.0	32.0	18.2		85	105	96.9		6.0	32.0	22.0
	90	106	82.2		6.3	32.3	18.7		90	106	99.5		6.3	32.3	22.6
	95	108	84.3		6.7	32.9	19.1		95	108	102.0		6.7	32.9	23.2
	55	97	84.9		3.9	29.6	19.3		55	97	90.0		3.9	29.6	20.4
	60	101	89.0		4.2	30.8	20.2		60	101	94.7		4.2	30.8	21.5

*Standard Nozzle

Performance: US Units

EXTENDED RANGE SPRINKLER

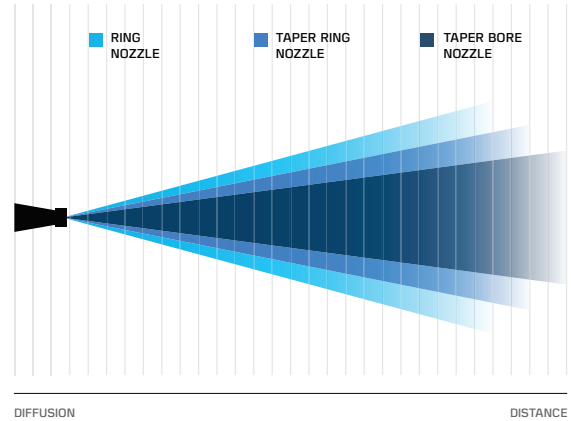
NOZZLES

TAPER BORE

TAPER RING

RING

STREAM DIFFUSION



75 SERIES

TAPER RING NOZZLE: 24° Trajectory

Pressure PSI	0.4 in 10.2 mm		0.45 in 11.4 mm		0.5 in 12.7 mm		0.55 in 14.0 mm		0.6 in 15.2 mm		0.65 in 16.5 mm		0.7 in 17.8 mm		0.75 in 19.1 mm		0.8 in 20.3 mm	
	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)
25	-	-	-	-	-	-	42	73	50	78	59	81	69	84	80	87	91	91
30	-	-	-	-	37	79	45	79	55	83	64	86	75	91	87	94	99	96
35	-	-	32	77	40	82	49	86	59	89	69	96	81	98	93	101	106	104
40	27	75	35	80	43	86	52	90	63	95	74	99	87	102	98	107	112	111
45	29	78	37	84	46	90	56	95	67	99	79	103	91	107	104	112	118	115
50	30	81	39	87	48	93	59	98	70	102	83	106	95	110	109	115	123	119
55	32	83	41	90	50	97	62	102	74	107	87	111	100	115	115	120	130	124
60	33	85	42	92	53	99	64	104	77	110	91	114	104	119	120	123	136	127
65	35	86	44	95	55	103	67	108	80	114	95	119	109	124	125	127	142	132
70	36	88	45	97	57	105	69	111	83	116	98	122	113	127	129	130	147	135
75	37	90	47	101	59	109	72	114	86	120	101	125	117	131	134	134	153	139
80	39	91	49	104	61	111	74	117	89	122	105	128	121	133	138	137	158	142

100 SERIES

TAPER BORE NOZZLE: 24° Trajectory

Pressure PSI	0.5 in 12.7 mm		0.55 in 14.0 mm		0.6 in 15.2 mm		0.65 in 16.5 mm		0.7 in 17.8 mm		0.75 in 19.1 mm		0.8 in 20.3 mm		0.85 in 21.6 mm		0.9 in 22.9 mm		1 in 25.4 mm	
	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)
40	47	96	57	101	66	107	78	111	91	115	103	120	118	125	134	128	152	131	-	-
50	50	103	64	108	74	113	87	118	100	123	115	128	130	133	150	137	165	140	204	150
60	55	108	69	114	81	120	96	125	110	130	126	135	143	140	164	144	182	148	224	158
70	60	113	75	119	88	125	103	132	120	138	136	142	155	148	177	151	197	155	243	169
80	64	118	79	124	94	130	110	137	128	143	146	148	165	153	189	157	210	163	258	177
90	68	123	83	129	100	135	117	142	135	148	155	153	175	158	201	163	223	168	274	181
100	72	128	87	134	106	140	123	147	143	153	163	158	185	163	212	168	235	173	289	186
110	76	133	92	139	111	145	129	152	150	158	171	162	195	168	222	172	247	178	304	190

TAPER RING NOZZLE: 24° Trajectory

Pressure PSI	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	
	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)
40	43	94	53	98	67	106	76	110	86	113	98	117	110	121	125	125	136	127	151	130	166	138
50	48	99	59	105	75	112	85	116	97	120	110	125	123	129	139	133	152	136	169	140	185	144
60	53	107	65	112	83	120	94	123	106	127	120	132	135	137	153	141	167	143	186	147	203	152
70	57	111	70	117	89	125	101	130	114	134	130	139	146	143	165	148	180	150	200	155	219	160
80	61	114	75	121	95	130	108	135	122	139	139	144	156	149	176	153	193	157	214	162	235	168
90	65	119	80	125	101	134	115	139	130	145	147	150	166	154	187	159	204	162	227	167	249	173
100	69	124	84	130	107	139	121	144	137	149	155	154	175	159	197	164	216	167	240	172	262	178
110	72	129	88	135	112	144	127	149	143	154	163	159	183	163	207	168	226	171	251	177	275	182

RING NOZZLE: 24° Trajectory

Pressure PSI	0.604 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	
	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)	gpm	Rad. (ft)
40	47	93	66	104	78	106	91	108	103	112	118	118	134	119	152	121
50	52	100	74	110	88	113	100	115	115	120	129	125	150	128	167	130
60	57	105	81	118	96	120	110	123	125	130	141	135	164	138	183	140
70	61	110	88	123	104	125	118	130	135	138	152	145	177	148	198	150
80	65	115	94	128	111	133	127	138	145	143	163	150	189	153	211	158
90	69	120	99	133	117	138	134	143	154	148	173	155	201	158	224	163
100	72	123	105	135	124	140	142	148	162	153	182	160	212	163	236	168
110	75	125	110	138	130	145	149	153	170	158	191	163	222	168	248	173

NELSON IRRIGATION - BIG GUN®