



## TORO TVAN VARIABLE ARC NOZZLES



Quick, easy and infinitely adjustable! Toro Variable Arc Nozzles (TVAN) are designed to deliver excellent irrigation efficiency with maximum versatility.

## FEATURES & BENEFITS

### Matched Precipitation Rates

Ensures all nozzles with a common radii apply water at approximately the same rate.

### Unique Grip and Turn Adjustment

Requires no tools and makes arc setting fast and simple. Adjust from the top of the nozzle – wet or dry.

### Infinitely Adjustable from 0° - 360°

The TVAN provides a variety of arc settings to precisely match any terrain and reduces inventory by meeting the needs of any size or shape landscape.

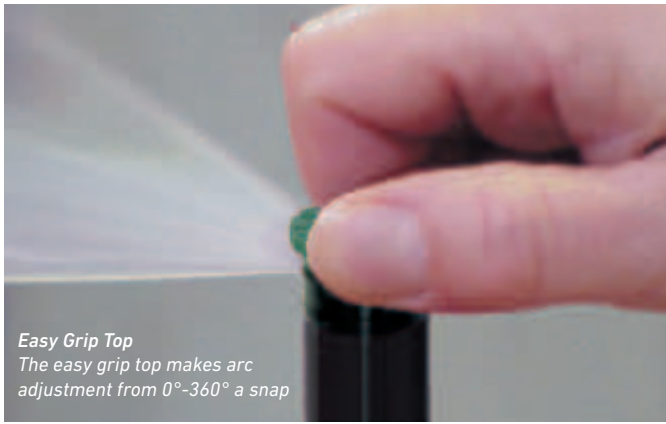
### Five Color-coded Nozzles

Allows for quick and easy identification even when retracted.

### Additional Features

- ✓ Stainless steel adjustment screw allows up to 25% radius reduction
- ✓ Nozzle arc adjustment opens from a fixed left stop position indicated by an arrow on the top





## SPECIFICATIONS

### Operational

- Radius: 8' to 17'
- Operating pressure range: 20-50 psi
- Recommended operating pressure: 30 psi

### Warranty

- Two years

## TVAN VARIABLE ARC NOZZLES MODEL LIST

Model	Description
TVAN8	8' Variable Arc Pattern
TVAN10	10' Variable Arc Pattern
TVAN12	12' Variable Arc Pattern
TVAN15	15' Variable Arc Pattern
TVAN17	17' Variable Arc Pattern

## TVAN VARIABLE ARC NOZZLE PERFORMANCE DATA

Pattern	psi	8' Series-Green				10' Series-Blue				12' Series-Brown				15' Series-Black				17' Series-Gray			
		gpm	Rad	Precip. Rate		gpm	Rad	Precip. Rate		gpm	Rad	Precip. Rate		gpm	Rad	Precip. Rate		gpm	Rad	Precip. Rate	
90°	20	0.58	7	5.26	4.56	0.59	9	3.24	2.81	0.76	10	3.38	2.93	1.06	15	2.09	1.81	1.25	16	2.17	1.88
	30	0.71	8	4.93	4.27	0.72	10	3.20	2.77	0.93	12	2.87	2.49	1.29	15	2.55	2.21	1.46	17	2.25	1.95
	40	0.82	9	4.50	3.90	0.84	10	3.73	3.24	1.07	12	3.30	2.86	1.49	16	2.59	2.24	1.68	18	2.31	2.00
	50	0.92	9	5.05	4.38	0.94	10	4.18	3.62	1.21	13	3.18	2.76	1.66	16	2.88	2.50	1.87	18	2.57	2.22
180°	20	0.81	7	3.67	3.18	0.94	9	2.58	2.24	1.35	10	3.00	2.60	1.71	14	1.94	1.68	1.95	15	1.93	1.67
	30	0.99	8	3.44	2.98	1.15	10	2.56	2.21	1.65	12	2.55	2.21	2.08	15	2.05	1.78	2.38	17	1.83	1.59
	40	1.15	8	3.99	3.46	1.33	10	2.96	2.56	1.91	12	2.95	2.55	2.40	15	2.37	2.05	2.74	17	2.11	1.83
	50	1.28	9	3.51	3.04	1.49	10	3.31	2.87	2.13	13	2.80	2.43	2.68	15	2.65	2.29	3.06	18	2.10	1.82
270°	20	1.08	7	3.27	2.83	1.37	9	2.51	2.17	1.90	11	2.33	2.02	2.41	14	1.82	1.58	2.69	14	2.03	1.76
	30	1.33	8	3.08	2.67	1.67	10	2.47	2.14	2.32	12	2.39	2.07	2.94	15	1.94	1.68	3.28	17	1.68	1.46
	40	1.53	8	3.54	3.07	1.92	10	2.85	2.47	2.68	12	2.76	2.39	3.38	15	2.23	1.93	3.76	17	1.93	1.67
	50	1.70	9	3.11	2.69	2.15	10	3.19	2.76	2.99	12	3.08	2.67	3.77	16	2.18	1.89	4.19	18	1.92	1.66
360°	20	1.25	7	2.84	2.46	1.73	9	2.37	2.06	2.27	10	2.52	2.19	2.69	13	1.77	1.53	3.05	17	1.17	1.02
	30	1.52	8	2.64	2.29	2.11	10	2.35	2.03	2.77	12	2.14	1.85	3.26	15	1.61	1.40	3.73	17	1.43	1.24
	40	1.75	9	2.40	2.08	2.42	10	2.69	2.33	3.12	12	2.41	2.09	3.79	15	1.87	1.62	4.26	18	1.46	1.27
	50	1.96	9	2.69	2.33	2.69	10	2.99	2.59	3.47	12	2.68	2.32	4.33	16	1.88	1.63	4.71	18	1.62	1.40

Shaded data indicates optimal operating pressure. Radius shown in feet. Data based on 360°.

## Specifying Information—TVAN

TVANXX	
Model	Radius
<b>TVAN</b>	<b>XX</b>
TVAN—Toro Variable Arc Nozzle	8—8' Variable Arc Pattern 10—10' Variable Arc Pattern 12—12' Variable Arc Pattern 15—15' Variable Arc Pattern 17—17' Variable Arc Pattern
<b>Example:</b> A TVAN8 nozzle, would be specified as: <b>TVAN8</b>	



www.toro.com

The Toro Company • Irrigation Division • 5825 Jasmine St. Riverside, CA • 92504 • 877-345-8676

Specifications subject to change without notice. For more information, contact your local Toro distributor. ©2016 The Toro Company. All rights reserved.

P/N 16-1116-IRC