

Connecting the Valve Wires (Figure 3)

Step 1-Route 18 AWG direct-burial sprinkler cable from the timer to the valves.

Step 2-Using wire splice connections, attach either wire from each valve solenoid to the white cable wire. This wire is designated as the valve "Common Wire." Connect the remaining wire from the solenoid to one of the color-coded wires.

▲ Important: All wire splices must be insulated with grease caps or similar waterproofing device.

Step 3-At the timer, connect the control wires to the numbered terminals in the desired operating sequence and the valve common wire to the common terminal.

Step 4-Using the timer's manual control feature, test the operation of each valve.

Manual Operation (Figure 4)

• **Bleed Screw (external bleed):** To open the valve, turn the Bleed Screw counterclockwise one full turn or until water begins discharging from the port.

Notes: Removing the bleed screw is not required but can be removed to help flush debris from the upper diaphragm area.

To close the valve, turn the bleed screw clockwise until it stops. **Do not over-tighten!**

• **Bleed Handle (internal bleed):** To open the valve, move the Bleed Handle counterclockwise to the stop. To close the valve, move the handle clockwise until resistance is felt. **Do not over-tighten!**

• **Flow Control Adjustment:** With the valve operating, use a small screwdriver to turn the flow control screw clockwise to decrease flow or counterclockwise to increase flow.

Notes: The flow control screw requires approximately seven turns to adjust from maximum to minimum flow.

▲ Caution: Do not use the flow control to shut off the valve. Do not lower the flow control screw past the end of normal adjustment travel. Damage can occur.

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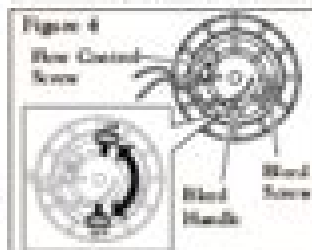
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TORO

1" In-line Valve Models 53707 and 53709

- Installation Guide -

The Toro 1" in-line electric valves are designed for use in an automatic sprinkler system controlled by a 24 V a.c. sprinkler system timer. The valves feature manual flow control adjustable down to zero flow and manual bleed controls which enable the valve to be operated without the use of the timer. The 53707 valve is designed for slip-fit pipe connections and model 53709 features female-threaded inlet and outlet. These valves are generally installed below grade, grouped with other valves in a manifold arrangement and housed in a protective valve box.



▲ Important: These valves do not provide backflow protection.

A backflow prevention device installed between the 1" in-line valve(s) and the water source point of connection is required in most areas to prevent back-siphoning of contaminants through the sprinkler system into the potable water supply. The Toro 1" Pressure Vacuum Breaker (PVB), model number 53100, is specifically designed for this purpose. Before connecting your irrigation system to the potable water supply, consult with your local water utility department for information regarding backflow prevention requirements. Where local water pressure exceeds 70 psi, a pressure regulator should be used. (See Uniform Plumbing Code, Sec. 1007[B].) It is advisable to use a regulator with any automatic valve to assure long life as well as uniform and controllable operation.

Valve Specifications

Operating Pressure: 20-150 PSI

Flow Range: 0.25-30 GPM

Solenoid:

24 V a.c., 60 Hz (nominal)

19 V a.c., 60 Hz (minimum)

Inrush: 0.40 amps, 9.6 VA @ 24 V a.c., 60 Hz

Holding: 0.20 amps, 4.8 VA @ 24 V a.c., 60 Hz

Friction Loss:

GPM/Flow	0.25	5	10	15	20	30
PSI Loss	1.0	3.5	4.0	5.0	5.5	6.5

Installation Procedure

Notes: To ensure ease of installation and optimum valve performance, please read through the following instructions completely before starting the installation procedure.

Step 1-Route 1" schedule 40 PVC pipe from the backflow preventer or system shut-off device to the valve location. Flush the supply line thoroughly!

▲ Caution: Dirt, rocks and debris entering the valve can damage the valve and/or cause the valve to malfunction.

Step 2-The instructions and illustrations on the next page provide the most commonly recommended methods of installing in-line valves in a manifold arrangement. Use the appropriate step-by-step instruction for the valve model being installed.

Toro Lawn Sprinkler Manuals

Richard L. Austin



Toro Lawn Sprinkler Manuals:

Black & Decker The Complete Guide to a Better Lawn Chris Peterson, 2011-03 DIVAt heart almost every homeowner would love to have a better lawn greener denser healthier This book is an up to date environmentally responsible approach to lawn care with mainstream appeal It focuses on dozens of common lawn problems offering detailed solutions to each one An ideal reference for busy homeowners who want better grass quickly and easily div The Technical Communication Handbook Laura J. Gurak, Mary E. Hocks, 2009 The Technical Communication Handbook a life long companion for technical communicators is a comprehensive reference guide for technical communication students at all levels as well as by practicing technical communicators and others writing in the technical workplace The handbook boasts a full color design extensively annotated model documents and coverage of current topics in intellectual property digital communication collaboration and accessibility issues *Water-Smart Gardening* Diana Maranhao, 2016-02 Save Water Save Money and Grow the Garden You Want **Simplified Irrigation Design** Pete Melby, 1995-06-16 The Second Edition of this best selling academic guide to irrigation design has been completely rewritten so you can understand it easily Created for the irrigation designer and installer as well as students Simplified Irrigation Design clearly explains irrigation design and related hydraulics without the need for interpretation by teachers Each chapter builds on the other presenting all the fundamentals of irrigation design before getting into the more complicated aspects of irrigation such as basic hydraulics pipe sizing friction loss calculations determining water pressure Photos and illustrations show exactly how every concept and piece of equipment works In addition you will learn how to estimate costs and write specifications Pipe sizes are described according to ASTM to help you fully understand the limits of irrigation pipe use The expanded Second Edition of this popular guide to landscape irrigation includes all the latest equipment and techniques Just a few of the new features include Methods of conserving water to help you anticipate your clients environmental concerns Computerized methods for managing labor and irrigation systems that will help you save money on labor and water costs Metric values for every Imperial U S measurement enabling you to meet federal metric guidelines and better communicate with an international audience Another bonus the author has combed the minds of irrigation designers contractors and equipment manufacturers to help you avoid costly mistakes that even veterans make Whether you are just learning or brushing up on the latest technology you will want to read the Second Edition of Simplified Irrigation Design from cover to cover Public Works Manual , 1991 Moody's Industrial Manual , 1963 **Golf Business** , 1977 **Landscape Irrigation Design** Eugene W. Rochester, 1995 Landscape Irrigation Design provides information and approaches to assist the successful irrigation designer Beginning with basic concepts the text discusses the soil plants water and their interactions sprinkler selection and spacing water supply and distribution controllers electrical wiring pumps and pump selection and drip irrigation and ends with completed irrigation designs Although the focus is on residential irrigation design larger designs such as golf courses are also discussed Careful

presentation of a wealth of resource material allows this work to serve as both an introductory text as well as an independent learning aid and makes Landscape Irrigation Design a valuable reference for first and subsequent design projects **Lawn Sprinklers** Richard L. Austin, 1990 **Lansing Telephone Directories** , 1979

This book delves into Toro Lawn Sprinkler Manuals. Toro Lawn Sprinkler Manuals is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Toro Lawn Sprinkler Manuals, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Toro Lawn Sprinkler Manuals
- Chapter 2: Essential Elements of Toro Lawn Sprinkler Manuals
- Chapter 3: Toro Lawn Sprinkler Manuals in Everyday Life
- Chapter 4: Toro Lawn Sprinkler Manuals in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Toro Lawn Sprinkler Manuals. The first chapter will explore what Toro Lawn Sprinkler Manuals is, why Toro Lawn Sprinkler Manuals is vital, and how to effectively learn about Toro Lawn Sprinkler Manuals.

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5. In chapter 4, the author will scrutinize the relevance of Toro Lawn Sprinkler Manuals in specific contexts. The fourth chapter will explore how Toro Lawn Sprinkler Manuals is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Toro Lawn Sprinkler Manuals. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Toro Lawn Sprinkler Manuals.

https://ftp.barnabastoday.com/data/browse/Documents/the_travel_and_tropical_medicine_manual.pdf

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