

A close-up photograph of several Teetjet valve handles. The handles are dark grey or black with a textured top surface and a circular logo embossed on each. The background is a gradient of teal and purple.

VALVES AND MANIFOLDS



VALVES AND MANIFOLDS

- ▶ *Manifold Flanged Fittings*
- ▶ *450 Manifold*
- ▶ *440 Manifolds*
- ▶ *480 Manifolds*
- ▶ *460 Manifold*
- ▶ *2-Way & 3-Way Ball Valves*
- ▶ *Electrically Operated Solenoid Valves*
- ▶ *AA155 Control Valve*
- ▶ *Electrically Operated Metered Bypass Valves*
- ▶ *Foam Marker Valve*
- ▶ *Pressure Regulating Valves*
- ▶ *340 Series 2-Way and 3-Way Ball Valves*
- ▶ *440M Manual Manifold*
- ▶ *Manual Pressure Relief/Regulating Valves*
- ▶ *6B & 17B Control Valves*
- ▶ *Throttling Valves*



TeeJet® Flanged Fittings



TeeJet® continues to add different options and sizes of flanged fittings. Please contact your TeeJet Sales Representative or local TeeJet supplier for more information.

Features:

- Flanged fittings eliminate leaks caused by threaded components
- Can be used with all TeeJet manifolds. Available in several sizes
- Used with stand alone fittings in plumbing systems
- Selected components available in Nylon, polypropylene, Viton®, and stainless steel

50 Series Flanged Fittings

- Straight Hose Barbs – 3/4", 1", 1 1/4", 1 1/2"
- 90° Hose Barbs – 3/4", 1"
- Inlet Cover
- Gauge Port* (NPT or BSPT) – 1/4", 3/8" (F)
- Quick Connect
- Female Pipe Threads (NPT or BSPT) – 1", 1 1/4"
- Male Pipe Threads (NPT or BSPT) – 3/4", 1", 1 1/2"
- Straight Coupling
- Elbow Coupling
- *1/4" also available in BSPP.

75 Series Flanged Fittings

- Straight Hose Barbs – 1 1/4", 1 1/2", 2"
- 90° Hose Barbs – 1 1/4", 1 1/2", 2"
- Inlet Cover
- Gauge Port (NPT or BSPT) – 1/4", 3/8" (F)
- Female Pipe Threads (NPT or BSPT) – 1 1/2"
- Male Pipe Threads (NPT or BSPT) – 1 1/4", 1 1/2", 2"
- Straight Coupling
- Elbow Coupling
- 75 Series to 50 Series Reducer
- Tees – 75 Series x 75 Series, 75 Series x 50 Series

TeeJet® Quick Connects

Features:

- Easy disconnects of hoses from valves
- Used with all 344, 440, 450, and 460 Series ball valves and manifolds
- Available in several different sizes
- Available in Nylon, Viton® and stainless steel

Quick Connects

Part Number	Description
45529-1/2	1/2" Straight Hose Barb
45529-3/4	3/4" Straight Hose Barb
45529-1	1" Straight Hose Barb
45529-90-1/2	1/2" 90° Hose Barb
45529-90-3/4	3/4" 90° Hose Barb
45529-90-1	1" 90° Hose Barb





450EC Manifold

450EC Features:

- Maximum pressure 150 PSI (10 bar)
- Easy mounting with built-in brackets
- Based on proven design of AA344 ball valves
- 12 VDC operation
- Pressure regulating valves can be incorporated upon request
- Nylon stem and polypropylene ball available as standard (stainless steel ball and stem optional)
- Flow rate 31 GPM @ 5 PSI pressure drop (flow rates may vary based on number of valves and inlet size)
- No external fuses — incorporates an internal resettable fuse (disconnect power to valve for 20 seconds to reset)

450ZC Features:

- Maximum pressure 150 PSI (10 bar)
- Easy mounting with built-in brackets
- Based on proven design of AA344 ball valves
- Pressure regulating valves can be incorporated upon request
- Nylon stem and polypropylene ball available as standard (stainless steel ball and stem optional)
- Flow rate 31 GPM @ 5 PSI pressure drop (flow rates may vary based on number of valves and inlet size)
- ¼ second response time from fully open to fully closed
- Sealed motor assembly withstands pressure washing
- Cable lengths available in 1.5', 5', 10' and 20'
- No external fuses — incorporates an internal resettable fuse (disconnect power to valve for 20 seconds to reset)



450ZC Manifold

Options Available:

■ Inlet Connections:

Uses 75 Series flanged fittings
(Refer to page 26 for 75 Series flanged fittings options)

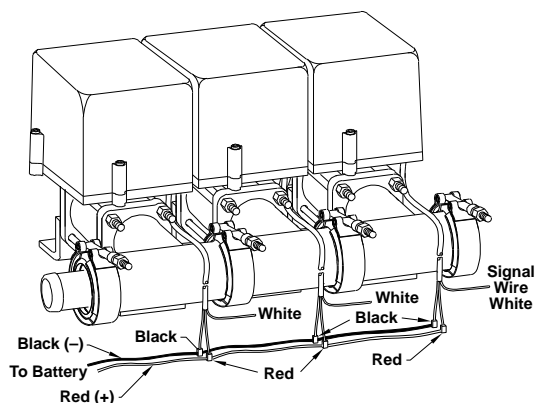
■ Outlet Connections:

- ¾" and 1" NPT (F) threaded outlets
- 50 Series flanged fittings (refer to page 26 for 50 Series flanged fittings options)
- Quick Connect outlet connections (refer to page 26 for Quick Connect options)

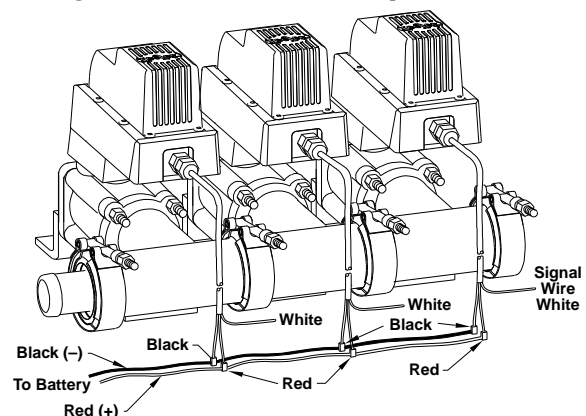
How to order:

More options may be available. For more information on how to order your 450EC or 450ZC manifold, contact your local TeeJet supplier or Regional Sales Office.

450EC Wiring Diagram Wiring for Positive Switched Systems



450ZC Wiring Diagram Wiring for Positive Switched Systems





The TeeJet® AA440 series DirectoValve manifold provides a convenient, compact solution for the installation of AA344 electric ball valves. This system eliminates the need for custom fabrication of pipe or hose manifolds, drastically reducing both installation time and the chance for fluid leaks. The AA440 manifold provides the high performance of electric ball valves with the ease of installation previously found only with solenoid valves.

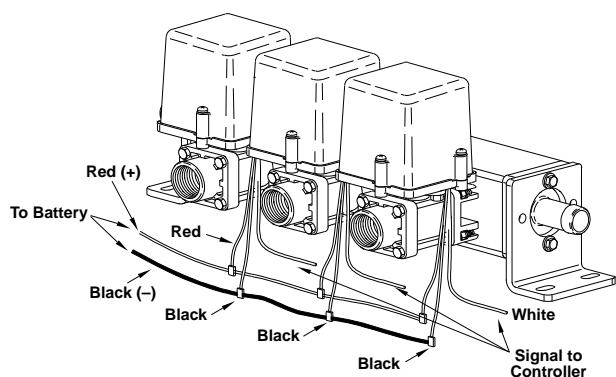
How to order:

More options may be available. For more information on how to order your 440 manifold, contact your local TeeJet supplier or Regional Sales Office.

Features:

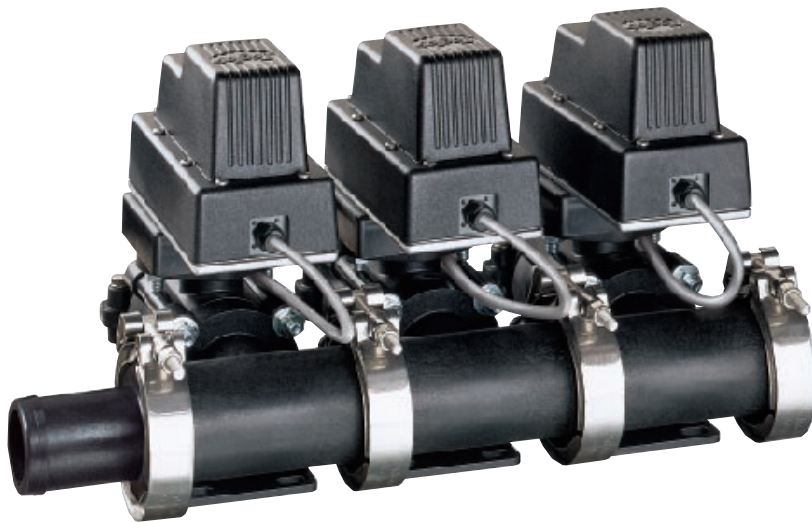
- Quick, simple plumbing of up to five electric ball valves
- Flexible inlet and outlet connection options
- Easy mounting with built-in brackets
- Based on proven design of AA344 ball valves
- 12 VDC operation
- Maximum pressure rating: 300 PSI (20 bar)
- Nylon stem and polypropylene ball available as standard (stainless steel ball and stem optional)
- Flow rate 26 GPM @ 5 PSI pressure drop (flow rates may vary based on number of valves and inlet size)
- No external fuses — incorporates an internal resettable fuse (disconnect power to valve for 20 seconds to reset)

440 Wiring Diagram
Wiring for Positive Switched Systems



Options Available:

- **Inlet Connections:**
 - 1" through 1¼" straight hose barb
 - ¼", ⅜" and 1" NPT (F) threaded inlets
- **Outlet Connections:**
 - ¾" and 1" NPT (F) threaded outlets
 - 50 Series flanged fittings (refer to page 26 for 50 Series flanged fittings options)
 - Quick Connect outlet connections (refer to page 26 for Quick Connect options)



Based on the 346 ball valve series, the TeeJet 480 manifold makes applying larger volumes a snap. Flanged connections and fittings make the 480 manifold one of the easiest systems on the market to assemble. The elimination of threads reduces the risk of leaks.

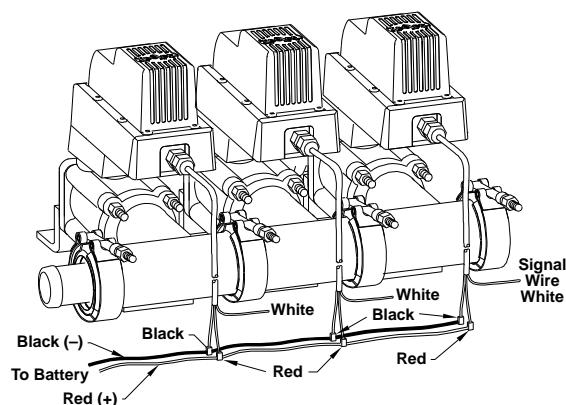
How to order:

More options may be available. For more information on how to order your 480 manifold, contact your local TeeJet supplier or Regional Sales Office.

Features:

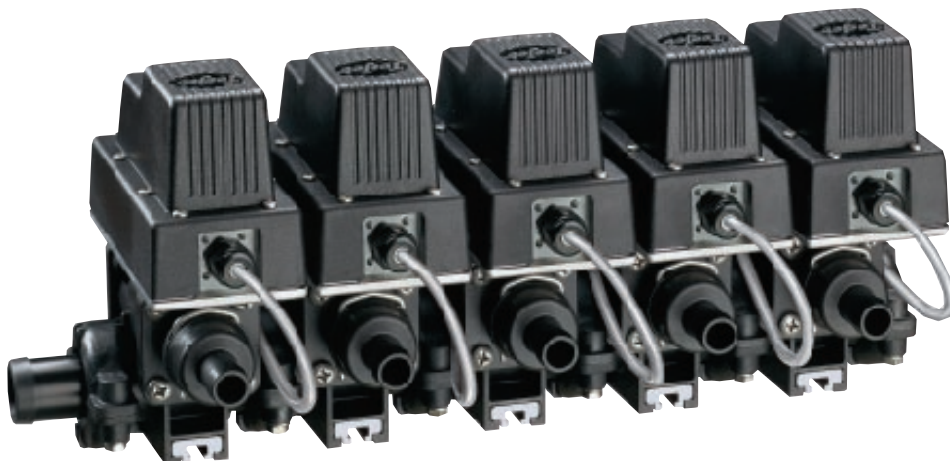
- Maximum operating pressure of 150 PSI (10 bar)
- 3/4 second response time from open to close
- 12 VDC operation
- Sealed motor assembly withstands pressure washing
- Flanged inlets eliminate the need for sealing threads
- Optional outlet flanges and fittings to eliminate threads are available
- Flow rate 75 GPM @ 5 PSI pressure drop (flow rates may vary based on number of valves and inlet size)
- No external fuses – incorporates an internal, resettable fuse (disconnect power to valve for 20 seconds to reset)

480 Wiring Diagram Wiring for Positive Switched Systems



Options Available:

- **Inlet Connections:**
 - Uses 75 Series flanged fittings
 - (Refer to page 26 for 75 Series flanged fittings options)
- **Outlet Connections:**
 - 1¼" and 1½" NPT (F) threaded outlets
 - 50 Series flanged fittings
 - (refer to page 26 for 50 Series flanged fittings options)



The TeeJet® 460 Ball Valve Manifold gives you unsurpassed reliability. A completely sealed motor maintains a watertight seal even if you pressure wash the valves. With the flanged manifold design, you can assemble as many valves together as your sprayer will require. The use of flanges reduces the possibility of leaks by eliminating threads.

If your needs require more volume for higher application rates and speeds, look to the TeeJet 450 or 480 manifold.

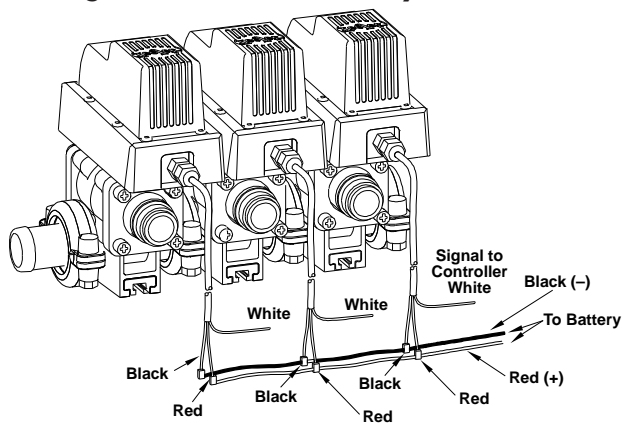
How to order:

More options may be available. For more information on how to order your 460 2-way manifold, contact your local TeeJet supplier or Regional Sales Office.

Features:

- 1/4 second response time from fully open to fully closed
- Sealed motor assembly withstands pressure washing
- Maximum pressure rating of 300 PSI (20 bar)
- 12 VDC operation
- Flanged inlet connections to eliminate threads and the possibility of leaks. See page 26 for more information
- Outlet options include: threaded, 50 Series flanged, Quick Connect
- No external fuses — incorporates an internal resettable fuse (disconnect power to valve for 20 seconds to reset)
- Mounting rail for quick and easy mounting
- Flow rate 25 GPM at 5 PSI pressure drop (flow rates may vary based on number of valves and inlet size)
- Nylon stem and polypropylene ball available as standard (stainless steel ball and stem optional)

**460 2-Way Wiring Diagram
Wiring for Positive Switched Systems**



Options Available:

- **Inlet Connections:**
 - 50 Series flanged fittings (refer to page 26 for 50 Series flanged fittings options)
- **Outlet Connections:**
 - 3/4" and 1" NPT threaded outlets
 - 50 Series flanged fittings (refer to page 26 for 50 Series flanged fittings options)
 - Quick Connect outlet connections (refer to page 26 for Quick Connect options)



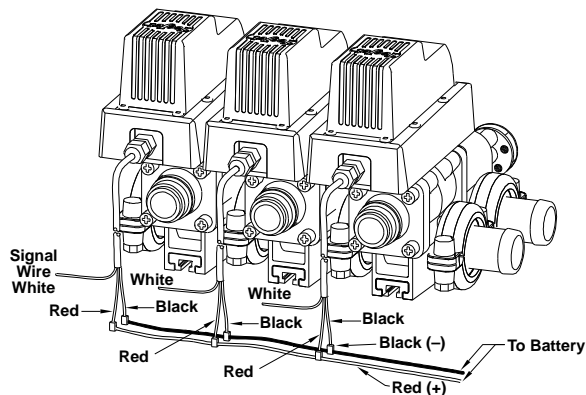
Features:

- 1/4 second response time from fully open to fully closed
- Sealed motor assembly withstands pressure washing
- Version A has VisiFlo® color-coded settings that can be used to match tips
- Version B has a single adjustment
- Flanged inlet connections to eliminate threads and the possibility of leaks. See page 26 for more information
- Maximum pressure rating of 300 PSI (20 bar)
- No external fuses — incorporates an internal resettable fuse (disconnect power to valve for 20 seconds to reset)
- Mounting rail for quick and easy mounting
- Nylon stem and polypropylene ball available as standard (stainless steel ball and stem optional)

How to order:

More options may be available. For more information on how to order your 460 3-way manifold, contact your local TeeJet supplier or Regional Sales Office.

460 3-Way Wiring Diagram Wiring for Positive Switched Systems



Options Available:

- **Inlet Connections:**
 - 50 Series flanged fittings (refer to page 26 for 50 Series flanged fittings options)
- **Outlet Connections:**
 - 1¼" and 1½" NPT threaded outlets
 - 50 Series flanged fittings (refer to page 26 for 50 Series flanged fittings options)
 - Quick Connect outlet connections (refer to page 26 for Quick Connect options)

AA344AEC Remote Control Electric Ball Valves

- Works with a simple, single pole off/on switch
- No external fuses — incorporates an internal resettable fuse (disconnect power to valve for 20 seconds to reset)
- Also available with electrical connectors for simple installation with TeeJet® sprayer controls
- 5 PSI (0.35 bar) pressure drop for 32 GPM (121 l/min) flow
- Quick connect and 50 Series flanged outlets are available (See page 26 for options)
- Maximum pressure rating of 300 PSI (20 bar)



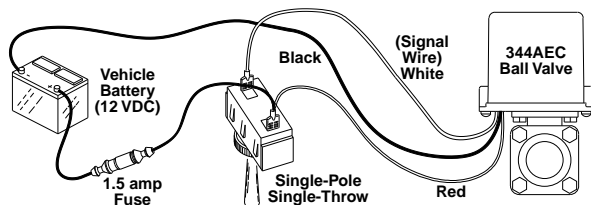
How to order:

Example: AA344AEC-2-¾ or AA344AEC-2-1

Available in BSPT.

Valve Number	Number of Outlets	Connection Size	Response Time
AA344AEC-2-¾	1	¾" NPT or BSPT	¼ sec.
AA344AEC-2-1	1	1" NPT or BSPT	¼ sec.

344AEC Wiring Diagram



AA344AE Remote Control Electric Ball Valves

- ¾" or 1" NPT & BSPT (F) connection
- Wetted parts: nylon, Teflon®, polypropylene and Viton®
- Works with double-pole, double-throw system
- No external fuses — incorporates an internal resettable fuse (disconnect power to valve for 20 seconds to reset)
- 5 PSI (0.35 bar) pressure drop for 32 GPM (121 l/min) flow
- Maximum pressure rating of 300 PSI (20 bar)



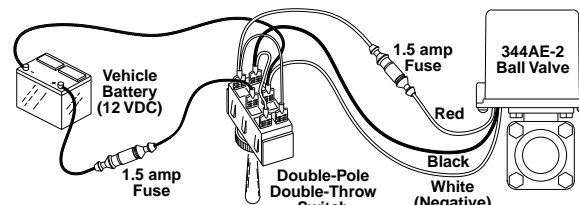
How to order:

Example: AA344AE-2-¾ or AA344AE-2-1

Available in BSPT.

Valve Number	Number of Outlets	Connection Size	Response Time
AA344AE-2-¾	1	¾" NPT or BSPT	¼ sec.
AA344AE-2-1	1	1" NPT or BSPT	¼ sec.

344AE Wiring Diagram



AA346ZC Remote Control Electric Ball Valves

- Maximum pressure 150 PSI (10 bar)
- 5 PSI (0.35 bar) pressure drop for 85 GPM flow (322 l/min)
- ¾ second response time from fully open to fully closed
- No external fuses — incorporates an internal resettable fuse (disconnect power to valve for 20 seconds to reset)
- Sealed motor assembly withstands pressure washing
- 1¼" and 1½" NPT & BSPT (F) and 50 Series flanged fittings available (See page 26 for options)

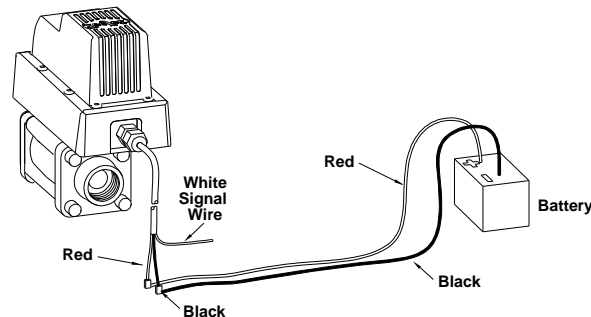


How to order:

Example: AA346ZC-25C05-2-5T

Available in BSPT.

346ZC Wiring Diagram



Valve Number	Number of Outlets	Connection Size	Response Time
AA346ZC-25C05-2-5T	1	1¼" NPT or BSPT	¼ sec.
AA346ZC-25C05-2-6T	1	1½" NPT or BSPT	¼ sec.
AA346ZC-25C05-2-F	1	50 Series Flange	¼ sec.



AA344AEC Remote Control Electric Ball Valves

- Works with a simple, single pole off/on switch
- No external fuses — incorporates an internal resettable fuse (disconnect power to valve for 20 seconds to reset)
- Also available with electrical connectors for simple installation with TeeJet® sprayer controls
- 5 PSI (0.35 bar) pressure drop for 24 GPM (91 l/min) flow
- Quick connect outlets are available
- Maximum pressure rating of 300 PSI (20 bar)

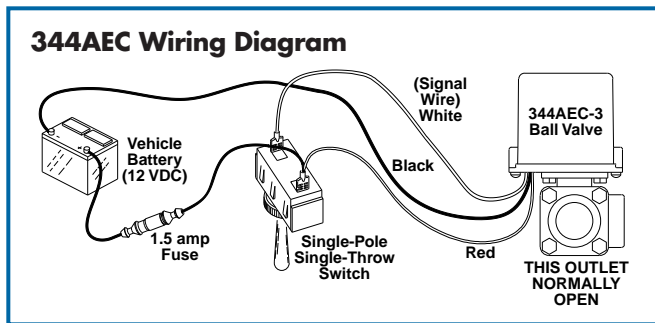


How to order:

Example: AA344AEC-3-¾ or AA344AEC-3-1

Available in BSPT.

Valve Number	Number of Outlets	Connection Size	Response Time
AA344AEC-3-¾	2	¾" NPT or BSPT	¾ sec.
AA344AEC-3-1	2	1" NPT or BSPT	¾ sec.



AA344AE Remote Control Electric Ball Valves

- ¾" or 1" NPT & BSPT (F) connection
- Wetted parts: nylon, Teflon®, polypropylene and Viton®
- Works with double-pole, double-throw system
- No external fuses — incorporates an internal resettable fuse (disconnect power to valve for 20 seconds to reset)
- 1 amp power consumption
- 5 PSI (0.35 bar) pressure drop for 24 GPM (91 l/min) flow
- Maximum pressure rating of 300 PSI (20 bar)

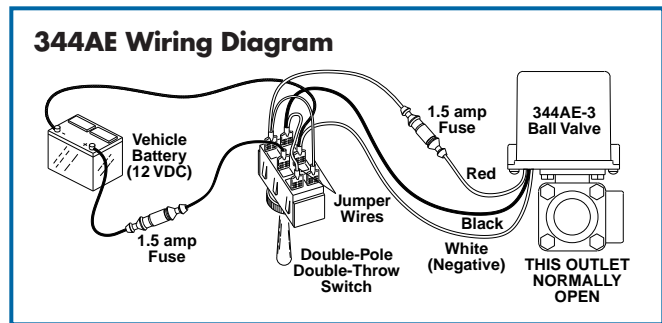


How to order:

Example: AA344AE-3-¾ or AA344AE-3-1

Available in BSPT.

Valve Number	Number of Outlets	Connection Size	Response Time
AA344AE-3-¾	2	¾" NPT or BSPT	¾ sec.
AA344AE-3-1	2	1" NPT or BSPT	¾ sec.



AA346ZC Remote Control Electric Ball Valves

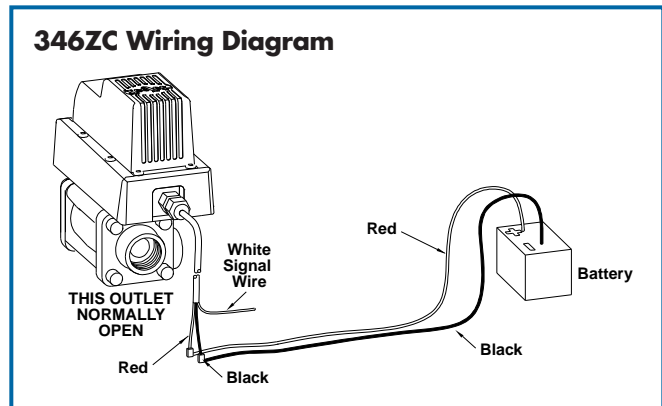
- ¾ second response time from fully closed
- No external fuses — incorporates an internal resettable fuse (disconnect power to valve for 20 seconds to reset)
- Sealed motor assembly withstands pressure washing
- Wetted parts made of corrosion-resistant material: glass-reinforced polypropylene, Teflon®, stainless steel, and Viton®
- 5 PSI (0.35 bar) pressure drop for 64 GPM (242 l/min) flow



How to order:

Example: AA346ZC-25C05-3-5T

Available in BSPT.

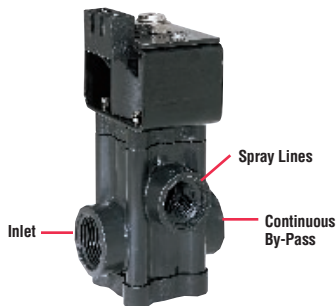


Valve Number	Number of Outlets	Connection Size	Response Time
AA346ZC-25C05-3-5T	2	1¼" NPT or BSPT	¾ sec.
AA346ZC-25C05-3-6T	2	1½" NPT or BSPT	¾ sec.



AA144A-, AA145-, AA146- DirectoValve Control Valves

- Direct acting; large internal flow chamber without pilot hole reduces chance of clogging
- Stainless steel wetted parts provide additional corrosion resistance
- Operate on 12 volt DC system
- Encapsulated solenoid coil can be changed without removing valve from system
- EPDM diaphragms and seat washers, Viton® optional
- Continuous flow through bypass connection, with flow to spray line controlled by valve "on-off" action



AA144A-1



AA144A-3 (Three Unit)

AA144A Valve for pressures up to 100 PSI

- 10 GPM (37.9 l/min) flow with only 5 PSI (0.35 bar) pressure drop
- Can be ganged with other 144A DirectoValve control valves
- 2.5 amp current draw
- Polypropylene body for chemical resistance
- Fabric reinforced EPDM diaphragms
- Also available as 2-unit or 3-unit assembly

How to order:

To order, specify AA144A- then "1", "2" or "3" to indicate number of units. Example: AA144A-3

Model No.	Inlet Size	Outlet Size	Flow Rate at 5 PSI Pressure Drop	Maximum Pressure	Current Draw
AA144A-*	3/4"	1/2"	10 GPM	100 PSI	2.5 amp

Available in BSPT.



AA144P-1



AA144P-3 (Three Unit)

AA144P DirectoValve Control Valves

- 10 GPM (37.9 l/min) flow with only 5 PSI (0.35 bar) pressure drop
- 2.5 amp current draw
- Polypropylene body for chemical resistance
- Fabric reinforced Viton® diaphragms
- No stroke adjustment required
- Corrosion-resistant. 430SS solenoid grade armature and armature stop
- Encapsulated coil and magnetic circuit

How to order:

To order, specify AA144P- then "1", "2" or "3" to indicate number of units. Example: AA144P-3

Model No.	Inlet Size	Outlet Size	Flow Rate at 5 PSI Pressure Drop	Maximum Pressure	Current Draw
AA144P-*	3/4"	1/2"	10 GPM	100 PSI	2.5 amp

Available in BSPT.



AA145

AA145 Control Valves

- For pressures to 65 PSI (4.5 bar); 18 GPM (68 l/min) flow with 5 PSI (0.35 bar) pressure drop
- Can be ganged with other 145 DirectoValve control valves

- 2.9 amp current draw
- Fiberglass reinforced nylon body

How to order:
Specify part number.
Example: AA145-1

Model No.	Inlet Size	Outlet Size	Flow Rate at 5 PSI Pressure Drop	Maximum Pressure	Current Draw
AA145-3/4	1"	3/4"	18 GPM	65 PSI	2.9 amp
AA145-1	1"	1"	18 GPM	65 PSI	2.9 amp

Available in BSPT.



AA145H

AA145H Control Valves

- For pressures to 100 PSI (7 bar); 15 GPM (56.7 l/min) flow with 5 PSI (0.35 bar) pressure drop
- Can be ganged with other 145H DirectoValve control valves

- 2.9 amp current draw
- Fiberglass reinforced nylon body

How to order:
Specify part number.
Example: AA145H-1

Model No.	Inlet Size	Outlet Size	Flow Rate at 5 PSI Pressure Drop	Maximum Pressure	Current Draw
AA145H-1	1"	1"	15 GPM	100 PSI	2.9 amp

Available in BSPT.



AA146

AA146 Control Valves

- For pressures to 65 PSI (4.5 bar)
- 4 amp current draw
- Can be ganged with other 146 DirectoValve control valves

- 35 GPM (132 l/min) flow with 5 PSI (0.35 bar) pressure drop
- Fiberglass reinforced nylon body

How to order:
Specify part number.
Example: AA146-1

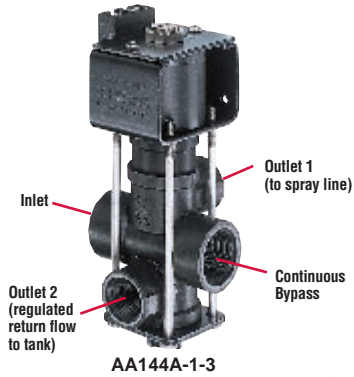
Model No.	Inlet Size	Outlet Size	Flow Rate at 5 PSI Pressure Drop	Maximum Pressure	Current Draw
AA146-1	1 1/4"	1"	35 GPM	65 PSI	4 amp
AA146-1 1/4	1 1/4"	1 1/4"	35 GPM	65 PSI	4 amp

Available in BSPT.

DirectoValve®

Electrically-Operated Metered Bypass Valves

VALVES AND MANIFOLDS



AA144A-1-3



AA144A-3-3
(Three Unit)

Automatically maintains system pressure

The three-way solenoid-operated DirectoValve control valve bypasses boom flow to maintain constant spraying pressure when one or more boom sections are shut off. To maintain pressure with a 23520 Throttling Valve, Outlet 2 must be throttled to match the total capacity of the nozzles on that boom section.

- For pressures to 65 PSI (4.5 bar)
- 8 GPM (30 l/min) flow at only 5 PSI (0.35 bar) pressure drop
- 2.5 amp current draw

- Encapsulated 12VDC coil can be easily changed without removing valve from line
- Polypropylene body for chemical resistance
- Stainless steel internal metal parts
- Chemical-resistant EPDM diaphragms and seat washers

How to order:

As with the 144A DirectoValve, the 144A-1-3 can be supplied as a single unit and 3-unit assembly. When ordering, specify part number.

Note: 23520 Throttling Valve not included.

Model No.	Number of Units in Assembly	Spray Line Connection NPT	Continuous Flow Inlet Bypass Connection NPT
AA144A-1-3	1	1/2"	3/4"
AA144A-3-3	3	1/2"	3/4"



AA144P-1-3

AA144P-1-3 DirectoValve Control Valves

The 144P-1-3 three-way solenoid-operated DirectoValve control valve was specifically designed to provide bypass control in spraying applications. When used with part number 23520-PP throttling valve or a 4916 metering orifice plate in the bypass line, it can provide for a constant pressure spray system.

- For pressures to 65 PSI (4.5 bar)
- 5 PSI (0.35 bar) pressure drop with 8 GPM (30 l/min) flow
- Fabric reinforced Viton® diaphragms

- Nylon encapsulated 12 VDC coil with 1/4 Quick Connect terminals...power requirement 2.5 amp
- Glass-filled polypropylene (black) valve body
- Internal metal parts are stainless steel
- No stroke adjustment needed
- Corrosion-resistant, 430SS solenoid grade armature and armature stop

How to order:

Specify part number.

Example: AA144P-1-3

DirectoValve®

Solenoid Foam Marker Valves



AA144F-1-3

TeeJet® AA144F-1-3 DirectoValve® solenoid valve for foam markers

The 144F-1-3 three-way operated DirectoValve was designed for use with foam markers. With electrical power off, flow to outlet 1 is stopped and liquid flows to outlet 2. With electrical power on, flow to outlet 2 is stopped and liquid flows to outlet 1.

How to order:

Specify part number.

Example: AA144F-1-3

Features:

- Operating pressure range 0-50 PSI (0-3.5 bar)
- Large flow capacities, 5 PSI (0.35 bar) pressure drop with 8 GPM (30 l/min) flow
- Nylon encapsulated 12VDC coil with 1/4" quick connect terminals
- Glass-filled polypropylene (black) valve body
- Internal metal parts are made of brass, fasteners are made of stainless steel, other metal parts are zinc-plated
- Chemical-resistant EPDM rubber seat washer and diaphragm

AA244C-3/4 Remote Control Electric Regulating Valve

The AA244C-3/4 butterfly valve provides remote pressure control. Features two-wire lead for use in 12VDC system, reduced pressure loss (5 PSI for 28 GPM flow), and maximum operating pressure of 100 PSI. 3/4" NPT (F) connections. Good corrosion resistance. Low current draw (0.15 amp).

How to order:
Specify model number.*
Example: AA244C-3/4



Model AA344AE-2PR Linear Pressure Regulating Valve

The AA344AE-2PR two-way linear pressure regulating valve is designed to provide gradual and smoother regulation and shutoff control in agricultural spraying operations. Features two-wire lead that provides easy installation with 744 Sprayer Control and similar 12VDC systems. Low power consumption (1.0 amp). Pressure drop of 5 PSI (0.35 bar) at 12 GPM (45 l/min). Maximum operating pressure of 300 PSI (20 bar). Available with 3/4" and 1" connections NPT or BSPT (F).

How to order:
Specify model number.*
Examples: AA344AE-2PR-3/4 or AA344AE-2PR-1



Model AA346ZR Pressure Regulating Valve

A pressure drop of 5 PSI (0.35 bar) at 85 GPM (322 l/min). Available at two different speeds, 6 seconds and 18 seconds, from fully open to fully closed. Available with 1 1/4" and 1 1/2" NPT or BSPT (F) or with 50 Series flanged connections. (See page 26 for more information.) Maximum pressure rating of 150 PSI (10 bar).

How to order:
Specify model number.*
Examples: AA346ZR-2.5C05-2-5T (6T or F) or AA346ZR-1.0C05-2-5T (6T or F)



Model AA344AE-2RL Pressure Regulating Valve

Larger capacity than the 344AE-2PR with a pressure drop of 5 PSI (0.35 bar) at 27 GPM (102 l/min) and a cycle time from fully open to closed in 12 seconds. Maximum pressure rating of 300 PSI (20 bar).

How to order:
Specify model number.*
Examples: AA344AE-2RL-3/4 or AA344AE-2RL-1



Model AA346ZRB Pressure Regulating Butterfly Valve

Larger capacity than the AA344AE-2RB with 85 GPM (322 l/min) flow at 5 PSI (0.35 bar) pressure drop. Cycle time of 6 seconds from fully open to closed. Available with 1 1/4" and 1 1/2" NPT or BSPT (F) or with 50 Series flanged connections (see page 26 for more information). Maximum pressure rating of 150 PSI (10 bar).

How to order:
Specify model number.*
Example: AA346ZRB-C05-2-5T (6T or F)



Model AA344AE-2RB Pressure Regulating Butterfly Valve

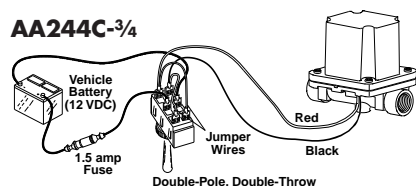
The AA344AE-2RB pressure regulating valve has all the features and reliability of a ball valve, plus smooth linear flow regulation at lower flows (i.e. less than 5 GPM). Pressure drop of 5 PSI (0.35 bar) at 30 GPM (113 l/min). Maximum operating pressure of 300 PSI (20 bar). A cycle time from fully open to closed in 6 seconds. Continuous bypass in closed position is 1.4 GPM (5.3 l/min). Available with 3/4" and 1" connections NPT or BSPT (F) or Quick Connections.

How to order:
Specify model number.*
Examples: AA344AE-2RB-3/4 or AA344AE-2RB-1

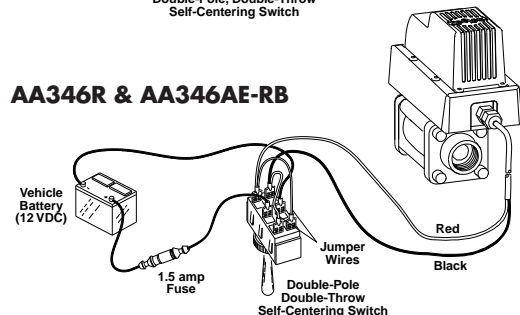


Wiring Diagrams

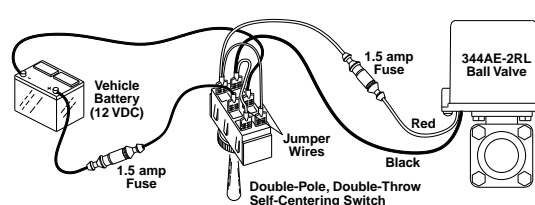
AA244C-3/4



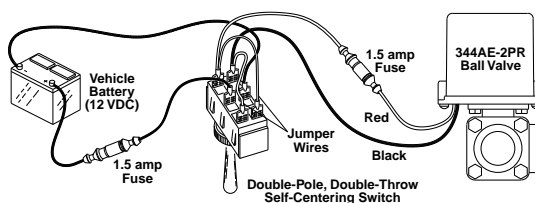
AA346R & AA346AE-RB



AA344AE-2RL & AA344AE-2RB



AA344AE-2PR



* Available in BSPT.



AA344M-NYB

344M-NYB

2-Way Nylon Manual Ball Valves

- Quarter turn of handle from shutoff to full flow
- ¾" or 1" NPT and BSPT (F) connections

- Wetted parts: nylon, Teflon®, polypropylene and Viton®

How to order:

Specify valve number.

Example: AA344M-2-1

AA344M-NYB

Valve Number	Maximum Pressure	Number of Outlets	Connection Size
AA344M-2-¾	300 PSI	1	¾" NPT or BSPT
AA344M-2-1	300 PSI	1	1" NPT or BSPT

Flow Rate: 5 PSI (0.35 bar) pressure drop for 32 GPM (121 l/min) flow.

Available in BSPT.



AA343M-PP

340M-PP Series

2-Way Manual Ball Valves

- Quarter turn of handle from shutoff to full flow.
- ⅜", ½", ¾", 1", 1¼" or 1½" NPT and BSPT (F) connections

- Wetted parts: glass-reinforced polypropylene, Teflon® and Viton®

How to order:

Specify valve number.

Example: AA343M-2-⅜-PP

AA343M-PP

Valve Number	Maximum Pressure	Number of Outlets	Connection Size
AA343M-2-⅜-PP	150 PSI	1	⅜" NPT or BSPT
AA343M-2-½-PP	150 PSI	1	½" NPT or BSPT

Flow Rate: 5 PSI (0.35 bar) pressure drop for 11 GPM (42 l/min) flow.

Available in BSPT.



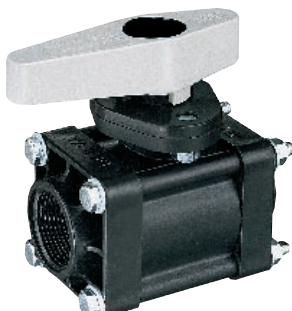
AA344M-PP

AA344M-PP

Valve Number	Maximum Pressure	Number of Outlets	Connection Size
AA344M-2-¾-PP	125 PSI	1	¾" NPT or BSPT
AA344M-2-1-PP	125 PSI	1	1" NPT or BSPT

Flow Rate: 5 PSI (0.35 bar) pressure drop for 32 GPM (121 l/min) flow.

Available in BSPT.



AA346M-PP

AA346M-PP

Valve Number	Maximum Pressure	Number of Outlets	Connection Size
AA346M-2-1¼-PP	125 PSI	1	1¼" NPT or BSPT
AA346M-2-1½-PP	125 PSI	1	1½" NPT or BSPT

Flow Rate: 5 PSI (0.35 bar) pressure drop for 85 GPM (322 l/min) flow.

Available in BSPT.



AA344M-NYB

344M-NYB 3-Way Nylon Manual Ball Valves

- 3-way version diverts flow to either outlet; no shutoff
- 3/4" or 1" NPT and BSPT (F) connections
- Wetted parts: nylon, Teflon®, polypropylene and Viton®

How to order:
Specify valve number.
Example: AA344M-3-1

AA344M-NYB

Valve Number	Maximum Pressure	Number of Outlets	Connection Size
AA344M-3-3/4	300 PSI	2	3/4" NPT or BSPT
AA344M-3-1	300 PSI	2	1" NPT or BSPT

Flow Rate: 5 PSI (0.35 bar) pressure drop for 24 GPM (91 l/min) flow.

Available in BSPT.



AA343M-PP

340M-PP Series 3-Way Manual Ball Valves

- 3-way version diverts flow to either outlet; no shutoff
- 3/8", 1/2", 3/4", 1", 1 1/4" or 1 1/2" NPT and BSPT (F) connections
- Wetted parts: glass-reinforced polypropylene, Teflon® and Viton®

How to order:
Specify valve number.
Example: AA343M-3-3/4-PP

AA343M-PP

Valve Number	Maximum Pressure	Number of Outlets	Connection Size
AA343M-3-3/8-PP	150 PSI	2	3/8" NPT or BSPT
AA343M-3-1/2-PP	150 PSI	2	1/2" NPT or BSPT

Flow Rate: 5 PSI (0.35 bar) pressure drop for 8 GPM (30 l/min) flow.

Available in BSPT.



AA344M-PP

AA344M-PP

Valve Number	Maximum Pressure	Number of Outlets	Connection Size
AA344M-3-3/4-PP	125 PSI	2	3/4" NPT or BSPT
AA344M-3-1-PP	125 PSI	2	1" NPT or BSPT

Flow Rate: 5 PSI (0.35 bar) pressure drop for 24 GPM (91 l/min) flow.

Available in BSPT.



AA346M-PP

AA346M-PP

Valve Number	Maximum Pressure	Number of Outlets	Connection Size
AA346M-3-1 1/4-PP	125 PSI	2	1 1/4" NPT or BSPT
AA346M-3-1 1/2-PP	125 PSI	2	1 1/2" NPT or BSPT

Flow Rate: 5 PSI (0.35 bar) pressure drop for 64 GPM (242 l/min) flow.

Available in BSPT.



Features:

- Assemblies available in 1, 2, 3, 4, or 5 valve combinations
- Single ball valve sub-assemblies available for assembly with appropriate mounting kits
- 3/4" and 1" NPT or BSPT and Quick Connect valve outlets
- Maximum pressure rating: 300 PSI (20 bar)
- Flow rate 26 GPM at 5 PSI pressure drop (flow rates may vary based on number of valves and inlet size)
- Wetted parts components of Nylon, polypropylene, and Viton®. Stainless steel hardware throughout

How to order:

AA - 44 - M - - Left Inlet - Right Inlet

Part Code	Description
	Blank indicates all threaded connections to be NPT
B	All threaded connections to be BSPT

Inlet Connections

Part Code	Description
4H	Straight Hose Barb
5H	1-1/4" Straight Hose Barb
4T	1" Threaded Inlet
1T	1/4" Threaded Inlet
1.5T	3/8" Threaded Inlet
B	Blank

Number of Valves

Part Code	Description
1	1 Valve Manifold
2	2 Valve Manifold
3	3 Valve Manifold
4	4 Valve Manifold
5	5 Valve Manifold

Valve Outlet

Part Code	Description
Q	Quick Connect*
3	3/4" Threaded Outlet
4	1" Threaded Outlet

*See page 26 for information.

Quick Connect Outlets

(Order separately – see page 26)

Part Code	Description
45529-1/2	1/2" Straight Hose Barb
45529-3/4	3/4" Straight Hose Barb
45529-1	1" Straight Hose Barb
45529-90-1/2	1/2" 90° Hose Barb
45529-90-3/4	3/4" 90° Hose Barb
45529-90-1	1" 90° Hose Barb

"Q" outlets include clip and o-ring.



Diaphragm-Type Pressure Relief/Regulating Valves

Bypasses excess liquid. Choice of 1/2" and 3/4" NPT sizes. Chemical-resistant diaphragm seals off operating parts from contact with chemicals and remains resilient for chatter-free, responsive pressure control.

Features:

- Stainless steel springs, responsive to the pressure range of each valve
- Extra-large valve passages to handle full flow from supply line
- Positive locknut to hold adjustment screw firmly in place. Not affected by jarring and vibration
- Made of quality materials—choice of brass, aluminum, ductile iron and nylon as listed in tables

How to order:

Specify valve number.
Example: 8460-1/2-50

Model 8460

- Flow rate to 56 GPM (212 l/min) for 1/2" and to 70 GPM (265 l/min) for 3/4"
- Pressures to 50 and 300 PSI (3.5 to 20 bar)

Model 9840

- Similar to the 8460 with different choices of materials
- Flow rate to 56 GPM (212 l/min) for 1/2" and to 70 GPM (265 l/min) for 3/4"
- Pressures from 50 to 300 PSI (3.5 to 20 bar)

Valve Number	Inlet & Pipe Connections	Material		Pressure Range
		Inlet Body	Bonnet	
8460-*-50	1/2" or 3/4"	Nylon	Aluminum	Up to 50 PSI
8460-*	1/2" or 3/4"	Nylon	Aluminum	Up to 300 PSI
9840-*	1/2" or 3/4"	Brass	Aluminum	Up to 300 PSI
9840-*-AL	1/2" or 3/4"	Aluminum	Aluminum	Up to 300 PSI
9840-*-DI	1/2" or 3/4"	Ductile Iron	Aluminum	Up to 300 PSI

*Specify pipe size.



Piston-Type Pressure Relief/Regulating Valves

Bypasses excess liquid. Adjustable to maintain control of line pressure at any pressure within the valve's operating range. Selected pressure setting firmly held in place by locknut. Extra large valve passages to handle large flows.



Model 23120

Model 23120

- Stainless steel spring
- Excellent chemical resistance
- 1/4"-blind port for pressure gauge to be drilled by customer

Model 23120A

- Same as 23120 but with 316SS spring and Viton® o-ring

How to order:

Specify valve number.
Example: 23120-PP-1/2

Valve Number	Inlet & Pipe Connections	Material	Pressure Range
23120-PP-*	1/2" or 3/4"	Polypropylene	Up to 150 PSI
23120A-PP-*	1/2" or 3/4"	Polypropylene	Up to 150 PSI

*Specify pipe size.

Available in BSPT.



Model 6815

Model 6815

- Other models for high pressures up to 700 PSI are also available
- Brass also available with hardened stainless steel seat

How to order:

Specify valve number.
Example: 6815-1/2-50

Valve Number	Inlet & Pipe Connections	Material	Pressure Range
6815-*-50	1/2" or 3/4"	Brass or Aluminum	Up to 50 PSI
6815-*-300	1/2" or 3/4"	Brass or Aluminum	Up to 300 PSI
6815-*-700	1/2" or 3/4"	Brass or Aluminum	Up to 700 PSI

*Specify pipe size.

Available in BSPT.



Model 110-1/4 and 110-3/8



Model 110-1, 110-1 1/4 and 110-1 1/2

Model 110

- Removable bonnet for servicing unit without removing valve from line

How to order:

Specify valve number.
Example: AA110-1/4-300

Valve Number	Inlet & Pipe Connections	Material	Pressure Range
AA110-*-300	1/4" or 3/8"	Brass	Up to 300 PSI
AA110-*-700	1/4" or 3/8"	Brass	300 to 700 PSI
AA110-1	1"	Brass, Aluminum or Ductile Iron	Up to 150 PSI
AA110-1 1/4	1 1/4"	Brass, Aluminum or Ductile Iron	Up to 150 PSI
AA110-1 1/2	1 1/2"	Brass, Aluminum or Ductile Iron	Up to 150 PSI

*Specify pipe size.

Available in BSPT.



DirectoValve[®] Manual Control Valve

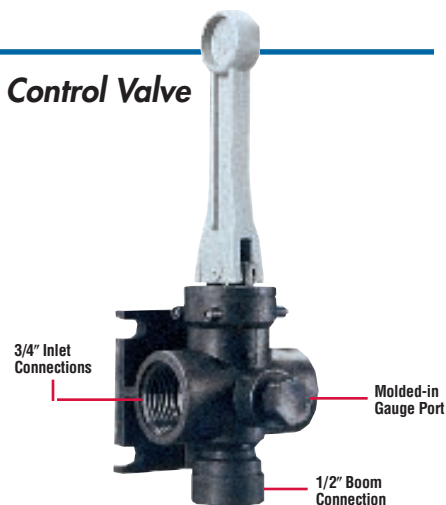
Model 6B

- Molded of corrosion-resistant materials, all wetted parts are polypropylene, stainless steel and polyethylene
- Maximum pressure of 150 PSI/10 bar
- Large capacity, 12 GPM (471 l/min) at 5 PSI (0.35 bar) pressure drop
- Molded-in mounting flange and 1/4" NPT gauge port

- Valves can be ganged together using hex nipple for multiple-boom control
- Easily repaired without removing valve from spray line

How to order:
Example: AA6B

Available in BSPT.

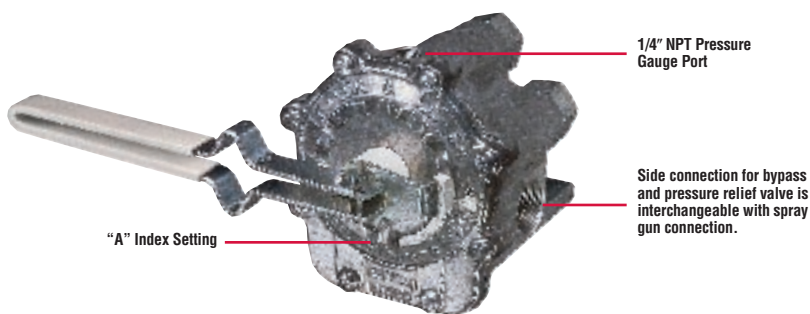


TeeValve[®] Control Valve

For selective control of three-section boom sprayers at pressures up to 300 PSI.

- Use to open any of three boom section lines in any desired combination.
- Raise lever to open, lower lever to close the valve without changing the indexed position.
- Aluminum construction with stainless steel and plastic internal parts for maximum corrosion resistance.

How to order:
Example: AA17B



Connection	Model No.									
Inlet Conn. 3/4" NPT	17A	17B	17C	17D	17F	17G	17H	17I	17J	17L
Inlet Conn. 1" NPT										17Y
Boom Outlets (3)	1/4" NPT	3/8" NPT	1/2" NPT	GHT M*	3/4" NPT	1/4" NPT	3/8" NPT	1/2" NPT	GHT M*	3/4" NPT
Accessory Outlets	1/2" NPT					3/4" NPT				

* GHT = Garden Hose Thread (male)

TeeJet[®] Throttling Valves

For regulating flow in systems equipped with centrifugal pumps where sensitive regulation is required or to control flow in jet agitator return lines. Locknut holds pressure setting firmly in place.

Type 23520

- Polypropylene construction for excellent chemical resistance.
- Pressures to 150 PSI (10 bar).
- 1/2" and 3/4" NPT or BSPT connections.
- 10 PSI pressure drop at 6 GPM flow rate for 1/2"; 18 GPM for 3/4" size.



How to order:
Example: 23520-1/2-PP

Available in BSPT.

Type 12690

- Pressures to 125 PSI (9 bar).
- Nylon construction.
- 1/2" or 3/4" NPT connections.
- Maximum flow rate at 100 PSI (9 bar) — 56 GPM (212 l/min) flow rate for 1/2" size; 82 GPM (310 l/min) for 3/4" size.



How to order:
Example: 12690-1/2-NYB

Type 12795

- Pressures to 150 PSI (10 bar).
- Available in brass, aluminum or ductile iron.
- Choice of 1", 1 1/4" or 1 1/2" NPT connections.
- Maximum flow rate at 40 PSI (3 bar) — 116 GPM (440 l/min) flow rate for 1" and 1 1/4" sizes and 172 GPM (651 l/min) for 1 1/2" size.



How to order:
Example: 12795-1