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# 2022/23

Agriculture Catalogue

Established 1954



*Providing Irrigation Solutions Since 1954.*

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## G.P.S. Mapping & Irrigation Design

G.P.S. Mapping is just one of the many tools we utilize to design an irrigation system. The high degree of accuracy and detail G.P.S. affords is a great starting point for our motivated and enthusiastic Vanden Bussche Team! Helping you identify and meet your irrigation goals have been the foundation of our company for over 60 years. Our mapping and design expertise will help to ensure:

- The system will operate to expectations
- Dealing with problem topographies
- Accurate placement of equipment
- Proper location of sensors & meters
- Positioning of relief vents & valves

Mapping & Design, when executed by our motivated & experienced group, is a smart choice for small, medium and large installations as well as revamping and upgrading your current irrigation system.

Irrigation Systems are steadily becoming more complex, allowing for automation, remote monitoring, remote access, fertilizer injection, and sensors that automatically record and transmit data. These increasingly sophisticated systems require a proper design that will benefit our customers and contractors.

Considering that each irrigation system is designed for a specific location, you can depend on us for custom fabrication to entrust that all components are of high quality to ensure reliability within your system. Even after your system has been installed, you can rely on Vanden Bussche Irrigation for quality service of your equipment with our trained and experienced staff.



## Prices

Prices are subject to change without notice. Prices invoiced will be the price in effect at the time of shipping or pickup.

Prices in the catalogue are suggested retail prices. For inquiry about trade prices, please contact a member of our team.

Applicable taxes will be charged separately on the invoice.

## Credit Policy

For those with established records of prompt payment, we are glad to grant reasonable credit terms. New accounts are cash C.O.D. until a record is established with us. We require trade and bank references for establishment of our credit. The minimum charge on account is \$25.

## Delivery - Freight Terms

Delivery terms are available upon request. All deliveries are subject to charge.

## Delivery Schedule

Vanden Bussche Irrigation will deliver to different regions on a weekly schedule. Please call for details. Claims for shortages/errors made on packing slips or delivery must be made within seven(7) days of receipt of order.

Vanden Bussche will be responsible for delivering orders to customer's place of business or job site safely and undamaged. Although our drivers will be happy to aide in the off-loading of these orders, it remains the responsibility of the customer for any damage or losses incurred during off-loading. It is the customers responsibility to supply any equipment needed in the off-loading of orders.

## Special Orders

All special orders must be made in writing (fax or email). All special non-stock orders must be prepaid and may not be cancelled or returned. Shipping surcharge may be applicable.

## Warranty

Items returned for a warranty exchange, replacement or repair must be accompanied with an invoice. It is our policy to follow the manufacturer with regards to warranty claims. Updates of manufacturers warranty products are available upon request.

## Returned Merchandise

Although we are happy to assist with all your irrigation needs the best we can, Vanden Bussche Irrigation & Equipment Limited does adhere to a strict merchandise return policy. Our policy is **NOT** to accept returned goods. All sales are final when a customer takes receipt of product. However, we do understand that some exceptions may apply and items for return will be assessed on a case by case basis. The following parameters may involve acceptance to the **NO RETURNS** rule:

1. All returns for product must be completed within 3 months of original purchase. Items that exceed the 3 months, may NOT be returned for credit or otherwise.
2. All customers must have proof of purchase at the time of the return process. This can be either a Vanden Bussche Irrigation & Equipment Ltd. Packing Slip or Invoice. Customers without proof of purchase will not be eligible for credit or otherwise.
3. **NO RETURNS** will be completed for Non-Stock items of any kind, unless approved by the vendor or GM.
4. All items being returned must be in "re-saleable" condition. Vanden Bussche Irrigation & Equipment Ltd., will not accept any damaged, dirty or unkempt product regardless of the number of days from purchase.
5. All returns will be subject to a 20% re-stocking fee or at minimum, a \$20 Administration Fee, unless picking error of product was made by a VBI staff member.
6. Shipments are prepaid to the originating VBI location.

## Hours of Operation

Monday - Thursday: 8:00 am-5:00 pm  
Friday: 8:00 am-4:00 pm

Saturday: Contact your local branch

Sunday: Closed

## Holiday Long Weekends

Contact your branch for details regarding long weekend closures.

## Off Season Closures

Some of our branches may be closed during the winter. Please see your branch for more information

Vanden Bussche Irrigation is closed for a full week at the end of November each year, due to inventory count. Please see your branch for specific closure dates.

## TABLE OF CONTENTS

### DRIP IRRIGATION

|                                       |       |
|---------------------------------------|-------|
| Thinwall Dripperline.....             | 6-9   |
| Heavywall Dripperline & Vineline..... | 10-13 |
| Tubing & Driptape.....                | 14    |
| Dripperline Fittings.....             | 15-17 |
| Plastic Mulch.....                    | 19    |
| Row Cover.....                        | 21    |
| Disc, Screen & Media Filters.....     | 22-27 |
| Pressure Regulators.....              | 28    |
| Air Vents & Flush Assemblies.....     | 29    |
| Flow Meters.....                      | 30    |
| Fertilizer Injectors.....             | 31-32 |
| Container Irrigation.....             | 34-35 |
| Drippers & Components.....            | 36-37 |
| Foggers, Misters & Sprinklers.....    | 39-40 |

### OVERHEAD IRRIGATION

|                                  |       |
|----------------------------------|-------|
| Bauer Rainstar Travellers.....   | 41-45 |
| Spray Booms.....                 | 46    |
| Traveller Accessories.....       | 47    |
| Kifco.....                       | 48    |
| Big Gun Sprinklers.....          | 50-51 |
| Pivots & Laterals.....           | 53-56 |
| Brass Impact Sprinklers.....     | 57-59 |
| Nelson Rotators.....             | 60-61 |
| K-Line Irrigation.....           | 62    |
| Sprays, Spinners & Rotators..... | 63    |
| Sprinkler Irrigation.....        | 64    |

### PIPE, FITTINGS & HOSE

|   |       |
|---|-------|
| Wade Rain Pipe, Valves & Fittings.....      | 66-69 |
| PVC Pipe & Fittings.....                    | 70-76 |
| Flanges, Underground Risers & Accessories.. | 78-79 |
| Gasketed Fittings.....                      | 80-81 |
| Poly Pipe & Hose.....                       | 82-83 |
| Insert, Galvanized & Kamlox Fittings.....   | 84-89 |
| Clamps & Couplers.....                      | 90-92 |

### CONTROLS & AUTOMATION

|                            |        |
|----------------------------|--------|
| Soil Moisture Sensors..... | 93     |
| Controllers.....           | 94-96  |
| Valves & Valve Boxes.....  | 97-100 |

### PUMPS

|                           |         |
|---------------------------|---------|
| PTO Pumps.....            | 102-103 |
| Electric Pumps.....       | 104-106 |
| Gas Pumps.....            | 107     |
| Diesel Pumps.....         | 108-111 |
| Hand & Power Primers..... | 113     |
| Controls & Switches.....  | 114     |
| Suction Fittings.....     | 115-116 |

### TRANSPLANTERS

|                             |         |
|-----------------------------|---------|
| Transplanters.....          | 117-119 |
| Mulch Layers & Lifters..... | 120-121 |

### SLURRY

|                            |     |
|----------------------------|-----|
| Bedding Recovery Unit..... | 122 |
| Fan Separators.....        | 123 |

### POND TREATMENT

|                     |     |
|---------------------|-----|
| Pond Treatment..... | 124 |
|---------------------|-----|

### OTHER

|                           |         |
|---------------------------|---------|
| Tools.....                | 125     |
| Friction Loss Charts..... | 126-129 |

# STREAMLINE X

Thinwall Dripperline



### Streamline X Specifications:

- Non Pressure Compensating
- Low Variation TurboNet Emitter
- Inside Diameter: 0.636" & 0.875"
- Mil: 5, 6, 8 & 10
- Common Emitter Spacing: 8", 12", 18", 24" & 30"
- Flow Rate (GPH): 0.16, 0.24 & 0.36

### Maximum Operating Pressures:

- 5 MIL - 13 PSI
- 6 MIL - 16 PSI
- 8 MIL - 17 PSI
- 10 MIL - 20 PSI

**Recommended Filtration: 120 mesh**

### INJECTION MOLDED DRIPPERS

Made of high quality polyethylene and welded into a wall of seamless tubing. Flow path is not affected by stretching during installation allowing for consistent water flow.

### ADVANCED FLAP TECHNOLOGY

Reduces the risk of clogging by systematically opening and closing during start-up and shut-down to protect against root intrusion and soil ingestion.

### HIGH STRENGTH POLYETHYLENE TUBING

Improved durability and tensile strength for higher operating pressures.

### LARGER FILTER INLETS

Secondary filtration - reduces the risk of clogging while maintaining constant water flow

### TURBONET

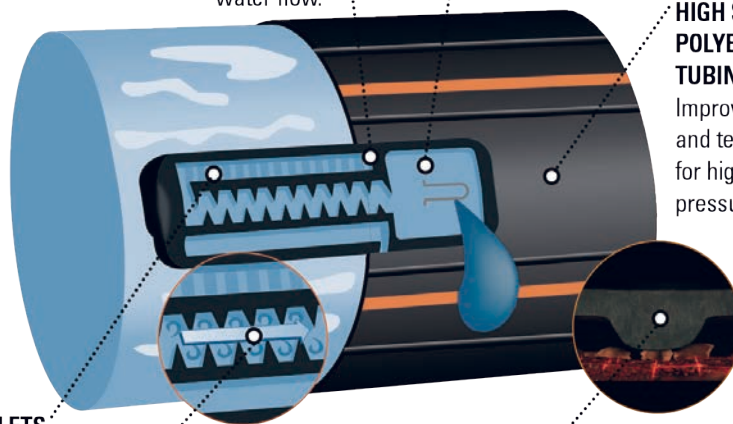
#### INCREASED FLOW PATH VELOCITY

Improves dripper performance by widening the tooth pattern, maximizing flow path velocity, allowing debris to pass easily through the dripper, eliminating clogging.

### RIBBED INTERIOR AND EXTERIOR

Exterior ribs for maximum abrasion resistance during installation.

Interior ribs for minimizing damage to dripper during installation.



See page 15 for Thinwall Dripperline Fittings.

# STREAMLINE X

## Thinwall Dripperline

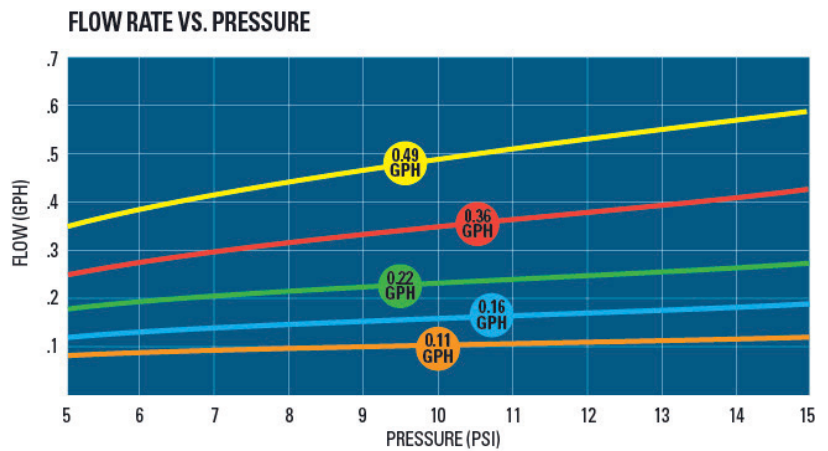
### Applications:

- **6 Mil:** seasonal use, surface or shallow burial (up to 5")
- **8 Mil:** seasonal or multi-seasonal use, surface or shallow burial (up to 8")
- **10 Mil:** multi-seasonal use, surface or shallow (up to 10") burial.
- Functional for surface or sub-surface installations

**NOTE:** When using plastic mulch, bury at least 1" deep.



**Streamline X Flow Rate vs. Pressure**



### STREAMLINE X SIZES

| PART #            | I.D.   | MIL | EMITTER SPACING | EMITTER FLOW (GPH) | REEL LENGTH (FT) |
|-------------------|--------|-----|-----------------|--------------------|------------------|
| AT06SPF6380616-16 | 0.630" | 6   | 16"             | 0.16               | 11,500'          |
| AT06SPF638062-12  | 0.630" | 6   | 12"             | 0.20               | 11,500'          |
| AT06SPF638062-16  | 0.630" | 6   | 16"             | 0.20               | 11,500'          |
| AT06SPF6380816-12 | 0.630" | 8   | 12"             | 0.16               | 9,000'           |
| AT06SPF6380816-16 | 0.630" | 8   | 16"             | 0.16               | 9,000'           |
| AT06SPF638082-12  | 0.630" | 8   | 12"             | 0.20               | 9,000'           |
| AT06SPF638082-16  | 0.630" | 8   | 16"             | 0.20               | 9,000'           |
| AT06SPF638102-12  | 0.630" | 10  | 12"             | 0.20               | 7,500'           |

Other sizes and custom orders are available (minimum quantities apply).  
 Please consult our expert Sales Team for more information.

# TYPHOON™ PLUS

Thinwall Dripperline



### Typhoon Specifications

- Non Pressure Compensating
- TurboNet Emitter.
- I.D. Size: 0.638" & 0.875"
- Mil: 8, 10, 13 & 15
- Emitter Spacing: 12", 16", 18" & 24"
- Flow Rate (GPH): 0.11, 0.16, 0.22, 0.36 & 0.49

### Maximum Operating Pressures:

- 8 MIL - 15 PSI
- 10 MIL - 17 PSI
- 13 MIL - 26 PSI
- 15 MIL - 32 PSI

### Recommended Filtration:

- 120 mesh for 0.11, 0.16 & 0.24, GPH emitters
- 80 mesh for 0.36 & 0.49 GPH emitters

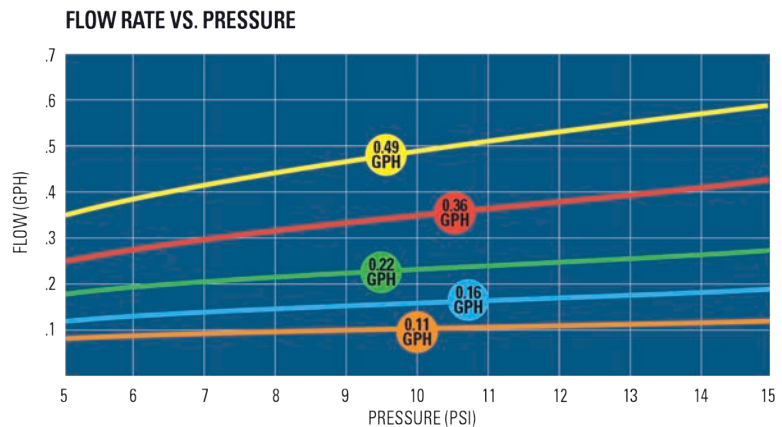
### Product Advantages:

- Seamless Construction
- Stronger, more durable than comparable drip tape
- Fortifies against splitting or bursting under high pressures required for proper flushing
- Eliminates root intrusion
- Dripperlines are packaged with more feet per reel, allowing for fewer fittings and less time changing reels during an installation.

### Applications:

- **8 Mil:** seasonal or multi-seasonal use, surface or shallow (up to 8") burial
- **10 Mil:** multi-seasonal use, surface or shallow (up to 10") burial. Use where rocky or clod soils exist
- **13/15 Mil:** sub-surface applications where durability is needed with deep burial (up to 24")

### Typhoon Flow Rate vs. Pressure

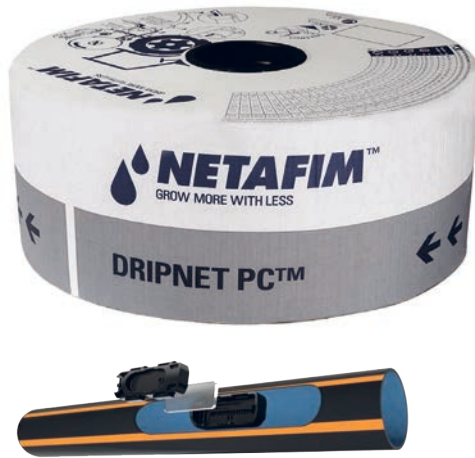


### TYPHOON PLUS SIZES

| PART #            | I.D.   | MIL | EMITTER SPACING | EMITTER FLOW (GPH) | REEL LENGTH (FT) |
|-------------------|--------|-----|-----------------|--------------------|------------------|
| AT06TPF638102-12  | 0.638" | 10  | 12"             | 0.25               | 6,600'           |
| AT06TPF638102-16  | 0.638" | 10  | 16"             | 0.25               | 6,600'           |
| AT06TPF6381316-24 | 0.638" | 13  | 24"             | 0.25               | 5,300'           |

Custom sizes are available (minimum quantities apply). Please consult our expert Sales Team for more information.





## DRIPNET PC

Pressure Compensating  
Thinwall Dripperline

### DripNet PC Specifications

Pressure Compensating  
TurboNet Emitter.  
I.D. Size: 0.636" & 0.875"  
Mil: 13, 15 & 25  
Emitter Spacing: 8", 12", 16", 18", 24" & 30"  
Flow Rate (GPH): 0.16, 0.26 & 0.42  
Operating Pressure Range: 6 to 36 psi

Recommended Filtration: 120 mesh

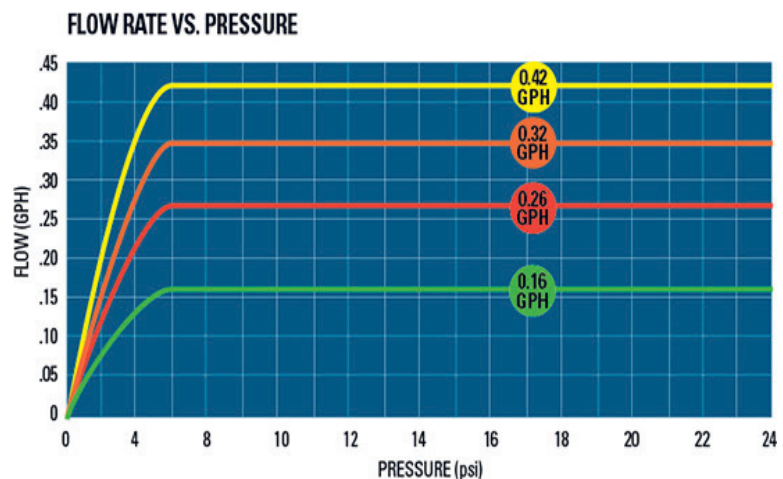
### Product Advantages:

- Pressure Compensating Dripperline
- Delivers precise flows anywhere in the field
- Undulating terrain, large fields with long rows (up to 50% longer, when compared to turbulent drip tape) receive exact amounts of water, from the first to the last dripper in the row
- Wide regulation pressure range from 6 to 36 psi
- Wide range of flows, tubing size and dripper spacing to match the soil's infiltration rates

### Applications:

- Sub-surface or surface installations
- Wide array of field & row crops
- **13 Mil:** multi-seasonal, durable surface & subsurface use
- **15 Mil:** multi-seasonal, durable surface & subsurface use
- **25 Mil:** where higher pressures are needed, to overcome severe undulations in large fields with long runs

### DripNet PC Flow Rate vs. Pressure



### DRIPNET PC SIZES

| PART #            | I.D.   | MIL | EMITTER SPACING | EMITTER FLOW (GPH) | REEL LENGTH (FT) |
|-------------------|--------|-----|-----------------|--------------------|------------------|
| AT06DA6361326-08  | 0.638" | 13  | 8"              | 0.26               | 3,700'           |
| AT06DFA6361326-12 | 0.638" | 13  | 12"             | 0.26               | 3,700'           |
| AT06D6361316-24   | 0.638" | 13  | 24"             | 0.16               | 4,000'           |

Anti-Siphon feature is available.

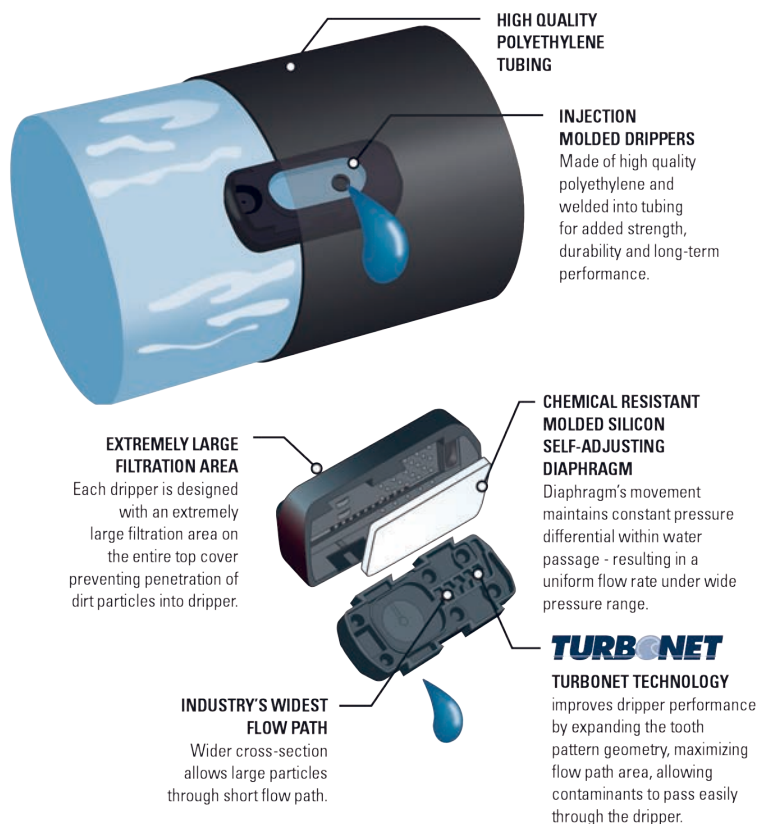
Custom sizes are available (minimum quantities apply). Please consult our expert Sales Team for more information.

# DRIPNET PC

Pressure Compensating  
 Heavywall Dripperline



DripNet PC's self-cleaning pressure compensating dripper is a fully self-contained unit welded to the interior wall of the dripper tubing. Both tubing & dripper are manufactured from high quality synthetic elastomers to withstand chemicals & fertilizers. The DripNet PC dripper contains a diaphragm that continuously adjusts to varying water pressure to ensure a constant flow rate. The diaphragm allows particles to pass through the dripper, promoting reliable performance and a longer system life. This continuous flushing feature and wide flow path keep drippers flowing at optimal rates without clogging or interrupting operation.



### Product Advantages:

- Wide pressure range produces uniform dripper flow rate on longer runs & steeper topographies for higher uniformity
- Lowest coefficient of manufacturing variability (CV) in the industry
- One-piece construction prevents damage to drippers during installation & retrieval
- Design flexibility is available in a range of dripper flows & spacings for specific application rates & controlling of wetting pattern in different soil types
- Pressure compensating feature delivers precise water application nearly everywhere in the field.

### Applications:

- Sub-surface or surface applications
- For tree, vine, row crops, greenhouse & nursery
- Multi-seasonal use
- For undulating fields

### DripNet PC Specifications:

- Pressure Compensating, TurboNet Emitter.
- I.D. Size: 16mm, 18mm & 20mm
- Emitter Spacing: 24", 30", 36", 42.25" & 48"
- Flow Rate (GPH): 0.16, 0.26, 0.32, 0.42, 0.53, 0.61, 0.92 & 1.00

### Operating Pressure Range:

- 4 to 43 psi (0.16 GPH)
- 6 to 43 psi (0.26, 0.32 & 0.42 GPH)
- 6 to 51 psi (0.53, 0.61, 0.79, 0.92 & 1.0 GPH)

### Recommended Filtration:

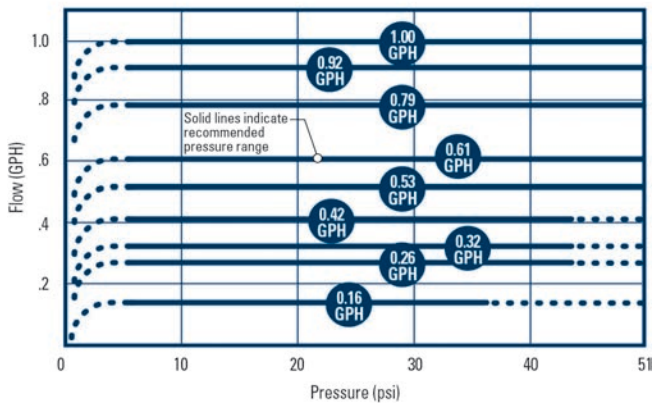
- 80 mesh - 0.42 GPH and higher
- 120 mesh - 0.16, 0.26, 0.32 GPH

## DRIPNET PC

Pressure Compensating  
 Heavywall Dripperline

### DripNet Flow Rate vs Pressure

#### FLOW RATE VS. PRESSURE



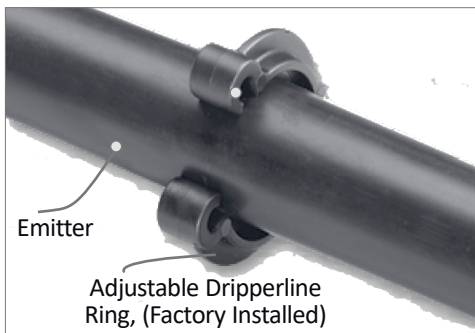
#### DRIPNET PC HEAVYWALL

| PART #           | MIL | EMITTER SPACING | EMITTER FLOW (GPH) | REEL LENGTH |
|------------------|-----|-----------------|--------------------|-------------|
| AT08D6204542-24  | 18  | 24"             | 0.4                | 1,000'      |
| AT08D6204553-24  | 18  | 24"             | 0.53               | 1,000'      |
| AT08D69048042-24 | 20  | 24"             | 0.42               | 1,000'      |
| AT08D69048053-24 | 20  | 24"             | 0.53               | 1,000'      |
| AT08D6204553-36  | 18  | 36"             | 0.5                | 1000'       |
| AT08D6204561-36  | 18  | 36"             | 0.6                | 1000'       |

Custom sizes are available (minimum quantities apply). Consult our expert Sales Team for more information.

## VINELINE RINGS, CURLS & STAPLES

### Vineline Rings



### VINELINE RINGS & CURLS

| PART #     | DESCRIPTION | SIZE              |
|------------|-------------|-------------------|
| ATH670780R | Vine Ring   | 18 mm             |
| ATH790R    | Vine Ring   | 20 mm             |
| AACURL3    | Vine Curl   | 3" for .700" O.D. |
| AACURL74   | Vine Curl   | 4" for .900" O.D. |
| AACURL83   | Vine Curl   | 3" for .830" O.D. |

Vineline Dripperline Rings attach easily with 12 to 13 gauge wire. Rings and Curls are installed downslope from emitter, preventing water travelling along the tubing.

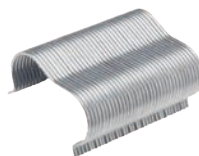
### Vineline Curls



### Vineline Staples



**AGRIFAST**



Model 142  
 Staples

Agrifast Model 142 Stapler

# UNIRAM

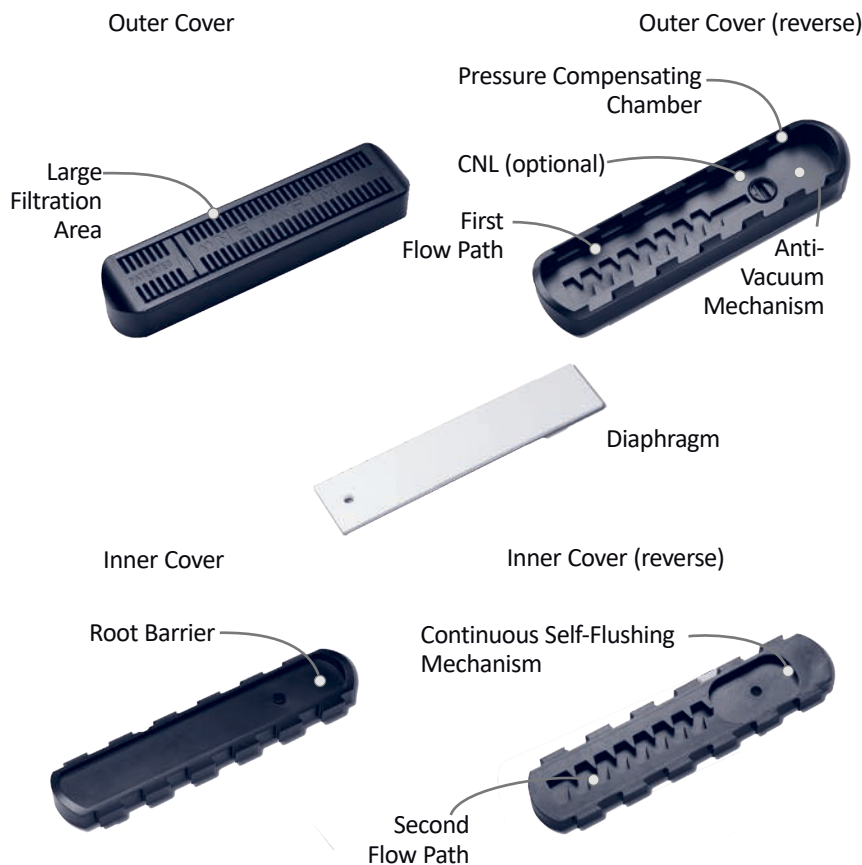
## Heavywall Dripperline



UniRam Heavywall Dripperline can operate in the poorest water quality conditions, the most difficult environments and irrigate the steepest terrains with the highest uniformity. UniRam's self-cleaning, pressure compensating dripper is a fully self-contained unit welded to the interior wall of the dripper tubing. Both tubing and dripper are manufactured from high quality synthetic elastomers to withstand chemicals and fertilizers.

The UniRam dripper contains a diaphragm that continuously adjusts to varying water pressure to ensure a constant flow rate. The diaphragm allows particles to pass through the dripper, promoting reliable performance and a longer system life. This continuous flushing feature & wide flow path keeps drippers flowing at optimal rates without clogging or interrupting operations.

### UniRam Emitter



#### UniRam Specifications:

- Pressure Compensating TurboNet Emitter, available with optional CNL Non-Leakage Mechanism; also available with Vineline Dripperline Ring
- I.D. Size: 16mm, 18mm & 20mm
- Coil Length = 1,000'
- Emitter Spacing: 18", 24", 30", 36", 42", 48" & 60".
- Flow Rate (GPH): 0.26, 0.42, 0.53, 0.61, 0.92, 1.0
- Operating Pressure Range: 7 to 58 psi
- Recommended Filtration: 80 mesh (120 mesh for 0.26 GPH)

#### Applications:

- Surface or subsurface installations
- Slopes & undulating terrain
- Poor water quality conditions

#### Product Advantages:

- Wide pressure range produces uniform dripper flow rate, meaning longer runs & steeper topographies are irrigated with high uniformity.
- Lowest coefficient of manufacturing variability (CV) in the industry.
- One piece construction prevents damage to drippers during installation & retrieval.
- Design flexibility & system performance is available in a range of dripper flows & spacings, allowing for specific application rates & controlling of wetting patterns in different soil types.
- Pressure compensating feature delivers precise water application nearly everywhere in the field.

See pages 16 & 17 for Heavywall Dripperline Fittings.

# UNIRAM

Pressure Compensating  
 Heavywall Dripperline

UniRam's optional CNL Mechanism prevents line drainage at the end of an irrigation cycle, eliminating refill time. The CNL option is ideal for pulse irrigation.



UniRam is also available with pre-installed Vineline Rings. Vineline Dripperline Rings attach easily to 12 to 13 gauge wire and are adjustable. Rings are installed downslope from emitter, to prevent water travelling along the tubing.



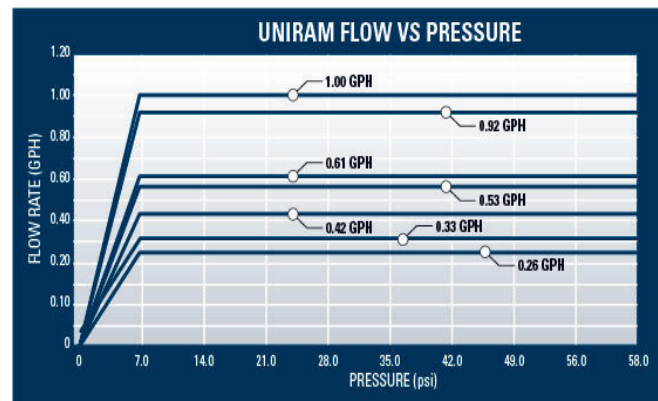
## UNIRAM - 1,000' COILS

| PART #       | SIZE (mm) | I.D.   | O.D.   | EMITTER SPACING | EMITTER FLOW (GPH) |
|--------------|-----------|--------|--------|-----------------|--------------------|
| AT08UR184-24 | 18        | 0.620" | 0.700" | 24"             | 0.42               |
| AT08UR185-24 | 18        | 0.620" | 0.700" | 24"             | 0.53               |
| AT08UR204-24 | 20        | 0.69"  | 0.79"  | 24"             | 0.4                |
| AT08UR189-36 | 18        | 0.620" | 0.700" | 36"             | 0.9                |

## UNIRAM WITH VINELINE RINGS

| PART #        | SIZE (mm) | I.D.   | O.D.   | EMITTER SPACING | EMITTER FLOW (GPH) |
|---------------|-----------|--------|--------|-----------------|--------------------|
| AT08URV184-24 | 18        | 0.620" | 0.700" | 24"             | 0.42               |
| AT08URV204-24 | 20        | 0.690" | 0.79"  | 24"             | 0.42               |

## UniRam Flow Rate vs Pressure



Custom sizes are available; lead times may vary. Consult with our expert Sales Team for more information.

## Oval Tubing

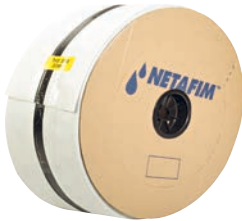


### OVAL TUBING

| PART #    | SIZE   | WORKING PSI | ROLL LENGTH (FT) |
|-----------|--------|-------------|------------------|
| AA1521600 | 1 1/2" | 21          | 600'             |
| AA221     | 2"     | 21          | 450'             |
| AA321     | 3"     | 21          | 200'             |
| AA421     | 4"     | 21          | 130'             |



## FLEXNET



FlexNet is simple, flexible and light-weight for maximum portability and quicker movement from field to field. It can be used in surface or subsurface applications and comes with pre-installed outlets, meaning there is no required specialized tools.



Surface Installation



Subsurface Installation



### FLEXNET & PARTS

| PART #               | DESCRIPTION                         | BAG QTY. |
|----------------------|-------------------------------------|----------|
| AT05FXPLUG050MPT-B   | 1/2" MPT Short Plug                 | 50       |
| AT05FX050MTEX636TL-B | 630 TWD Tee Connection Twist Lock   | 100      |
| AT05FX050MELX636TL-B | 630 TWD Elbow Connection Twist Lock | 100      |

Contact our expert Sales Team for other available sizes and custom ordering.

**\*\*Lead times may vary.\*\***



## CHAPIN DRIP TAPE



Chapin Watermatics is a pioneer of drip irrigation in North America. Their Turbulent Twin-Wall thinwall dripperline is a rugged, durable product available in a wide number of emitter spacings, reel lengths and thicknesses. Turbulent Twin-Wall with 2" & 4" spacing is a popular product amongst greenhouse growers.

### CHAPIN DRIP TAPE

| PART #        | I.D.   | MIL | EMITTER SPACING | FLOW RATE (GPH/100') | REEL LENGTH |
|---------------|--------|-----|-----------------|----------------------|-------------|
| AADLX58082100 | 0.625" | 8   | 2"              | 120                  | 7,500'      |
| AADLX58084175 | 0.625" | 8   | 4"              | 60                   | 7,500'      |

Contact our expert Sales Team for other available sizes.

### Turbulent Twin-Wall Specifications:

Non-Pressure Compensating  
 Turbulent Flow Path Emitter.  
 I.D. Size: 0.625"  
 Mil: 6, 8, 10  
 Emitter Spacing: 2", 4" & 12"  
 Flow Rate (GPH): 90, 60 & 18 per 100'  
 Operating Pressure Range: 10 psi

*Recommended Filtration: 200 mesh*

### Installation Tips:

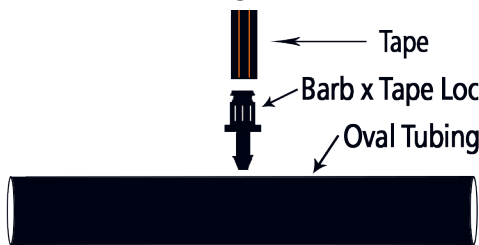
- Always install dripperline with the emitter facing up to allow particles in the system to settle away from the emitter.
- Regularly inspect the Dripperline Burial Shank to ensure it is free from burrs & rough edges.

# DRIPPERLINE FITTINGS

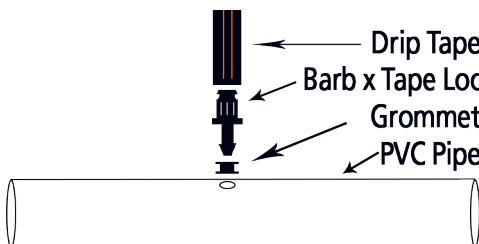
Dripperlines are connected to a variety of header lines either directly to the header line or with an intermediary line. The intermediary line has no emitter, so field headlands are not irrigated.

Also an intermediary line allows you to place the header line at the edge of the field so it does not interfere with other farm operations. IPS Hose and Netafim Tubing are popular choices to connect dripperlines to header lines.

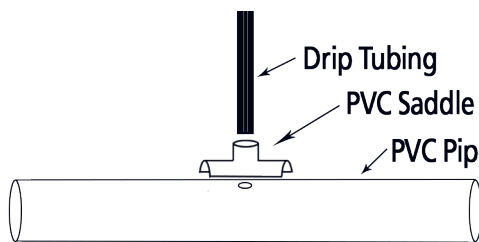
Oval Tubing Connection



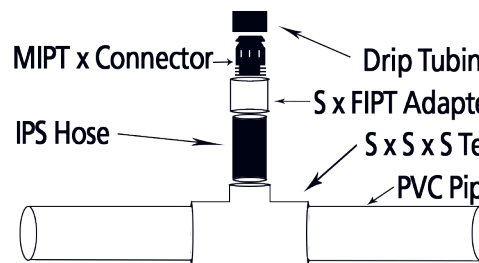
PVC Grommet Connection



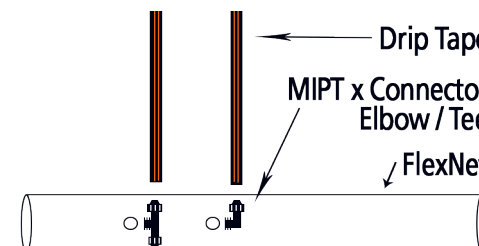
PVC Saddle Connection



PVC Tee x IPS Hose Connection

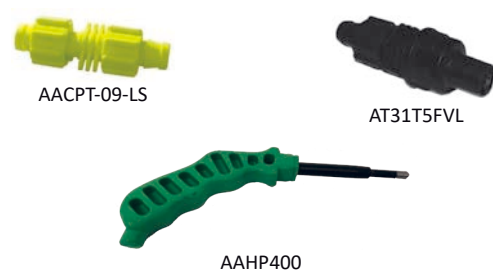


FlexNet Connection



## THINWALL DRIPPERLINE (T.W.D.) FITTINGS

| PART #        | DESCRIPTION                                      |
|---------------|--|
| AA250B-05-LS  | 0.25" Barb x 5/8" Tape Loc Adapter               |
| AA400B-06-LS  | 0.4" Barb x 5/8" Tape Loc Adapter                |
| AA250-BV06-LS | 0.25" Barb x 5/8" Tape Loc Adapter with Valve    |
| AA31TV5B400   | 0.4" Barb x 5/8" Tape Loc Adapter with Valve     |
| AAFHC-06-LS   | Layflat Adapter (5/8" Tape Loc)                  |
| AAFHC-09-LS   | Layflat Adapter (7/8" Tape Loc)                  |
| AT31T5H5      | 5/8" Tape Loc x 16 mm Netafim Tubing Adapter     |
| AT31T5H6      | 5/8" Tape Loc x 18 mm Netafim Tubing Adapter     |
| AT31T7H6      | 7/8" Tape Loc x 18 mm Netafim Tubing Adapter     |
| AAFHS-06-LS   | 5/8" Tape Loc x FHT with Screen Adapter          |
| AAMA-06-LS    | 5/8" Tape Loc x 1/2" MIPT Adapter                |
| AT31TV5TH50   | 5/8" Tape Loc x 1/2" MIPT Adapter with Valve     |
| AT31TV5TH75   | 5/8" Tape Loc x 3/4" MIPT Adapter with Valve     |
| AAATEE-06-LS  | 5/8" Tape Loc Tee                                |
| AT31TE55      | 5/8" Tape Loc Elbow                              |
| AT31C500Y     | 5/8" Tape Loc x 5/8" Tape Loc Coupler            |
| AACPT-09-LS   | 7/8" Tape Loc x 7/8" Tape Loc Coupler            |
| AACPTBV-06-LS | 5/8" Tape Loc x 5/8" Tape Loc Coupler with Valve |
| AT31T5FVL     | 5/8" Tape Loc Low Pressure End Flush Out         |
| AA HP400      | Tool Punch Pro Grip for 400 Series               |



## DRIPPERLINE FITTINGS

### Fittings for Heavywall Dripperline & Netafim Tubing (Perma-Loc)

| PART #       | DESCRIPTION                         |
|--------------|-------------------------------------|
| AT31HC500    | 16 mm Coupler                       |
| AT31HC600    | 18 mm Coupler                       |
| AT31HC700    | 20 mm Coupler                       |
| AT31HC800    | 22 mm Coupler                       |
| AT31HRC76    | 20 mm to 18 mm Reducing Coupler     |
| AT31HE66     | 18 mm Elbow                         |
| AT31HE77     | 20 mm Elbow                         |
| AT31HE88     | 22 mm Elbow                         |
| AT31HT666    | 18 mm Tee                           |
| AT31HT66P075 | 18 mm x 18 mm x 3/4" Slip 1" Spigot |
| ATHT66S      | 18 mm x 18 mm x FHT Tee             |
| ATHT77S      | 20 mm x 20 mm x FHT Tee             |
| AT31H6CAP    | 18 mm End Cap                       |
| AT31H7CAP    | 20 mm End Cap                       |
| AT31H6FVH    | 18 mm High Pressure End Flush Out   |
| AT31H6FVL    | 18 mm Low Pressure End Flush Out    |
| AT31H7FVL    | 20 mm Low Pressure End Flush Out    |
| AT31H8FVL    | 22 mm Low Pressure End Flush Out    |

### Fittings for Heavywall Dripperline & Netafim Tubing (Insert Fit & Perma-Loc)

| PART #      | DESCRIPTION                       |
|-------------|-----------------------------------|
| AT58-VQA12  | 16 mm Valve                       |
| AT58-VQA58  | 18 mm Valve                       |
| AT58-VQA34  | 20 mm Valve                       |
| BE600-BC    | 16 mm Insert Coupler              |
| BE600-BT    | 16 mm Insert Tee                  |
| BE600-BL    | 16 mm Insert Elbow                |
| AT31H5B400  | 0.4" Barb x 16 mm Adapter         |
| AT31H6B400  | 0.4" Barb x 18 mm Adapter         |
| AT31HV5B400 | 0.4" Barb x 16 mm Adapter & Valve |
| AT31HV6B400 | 0.4" Barb x 18 mm Adapter & Valve |
| AT31H6S     | FHT x 18 mm Adapter               |
| AT31H7S     | FHT x 20 mm Adapter               |
| AT31H5TH50  | 1/2" MIPT x 16 mm Adapter         |
| AT31H6TH50  | 1/2" MIPT x 18 mm Adapter         |
| AT31H6TH75  | 3/4" MIPT x 18 mm Adapter         |
| AT31H7TH75  | 3/4" MIPT x 20 mm Adapter         |
| AT31H8TH75  | 3/4" MIPT x 22 mm Adapter         |
| AT31HV5TH50 | 1/2" MIPT x 16 mm Adapter & Valve |
| AT31HV5TH75 | 3/4" MIPT x 16 mm Adapter & Valve |
| AT31HV6TH50 | 1/2" MIPT x 18 mm Adapter & Valve |
| AT31HV6TH75 | 3/4" MIPT x 18 mm Adapter & Valve |
| AT31HV7TH75 | 3/4" MIPT x 20 mm Adapter & Valve |



## DRIPPERLINE FITTINGS

### Fittings for Heavywall Dripperline & Netafim Tubing (Compression Fit)

|   | PART #       | DESCRIPTION                |
|---|--------------|----------------------------|
|    | AA400CPIA600 | 0.4" Barb x 16 mm Adapter  |
|    | AA400CPIA700 | 0.4" Barb x 18 mm Adapter  |
|    | AA600-CHS    | FHT x 16 mm Adapter        |
|    | AA700-CHS    | FHT x 18 mm Adapter        |
|   | AA800-CHS    | FHT x 20 mm Adapter        |
|  | AA900-CHS    | FHT x 22 mm Adapter        |
|  | AA600-CE     | MHT x 16 mm Adapter        |
|  | AA700-CE     | MHT x 18 mm Adapter        |
|  | AA900-CE     | MHT x 22 mm Adapter        |
|  | AA600-CMA05  | 1/2" MIPT x 16 mm Adapter  |
|  | AA600-CMA075 | 3/4" MIPT x 16 mm Adapter  |
|  | AA700-CMA05  | 1/2" MIPT x 18 mm Adapter  |
|  | AA700-CMA075 | 3/4" MIPT x 18 mm Adapter  |
|  | AA600-CC     | 16 mm Coupler              |
|  | AA700-CC     | 18 mm Coupler              |
|  | AA800-CC     | 20 mm Coupler              |
|  | AA900-CC     | 22 mm Coupler              |
|  | AA700-600CC  | 18 mm x 16 mm Coupler      |
|  | AA600-C3T    | 16 mm Tee                  |
|  | AA700-C3T    | 18 mm Tee                  |
|  | AA800-C3T    | 20 mm Tee                  |
|  | AA900-C3T    | 22 mm Tee                  |
|  | AA600-CST    | 16 mm x 16mm x FHT Tee     |
|  | AA700-CST    | 18 mm x 18 mm x FHT Tee    |
|  | AA600-CELL   | 16 mm Elbow                |
|  | AA700-CELL   | 18 mm Elbow                |
|  | AA800-CELL   | 20 mm Elbow                |
|  | AA600-CELLSN | FHT x 16 mm Elbow          |
|  | AA700-CELLSN | FHT x 18 mm Elbow          |
|  | AA600-AP8    | 16 mm Figure 8 End Closure |
|  | AA700-AP8    | 18 mm Figure 8 End Closure |
|  | AA600-CETC   | 16 mm End Closure with Cap |
|  | AA700-CETC   | 18 mm End Closure with Cap |
|  | AA800-CETC   | 20 mm End Closure with Cap |
|  | AA900-CETC   | 22 mm End Closure with Cap |

### Fittings for Heavywall Dripperline & Netafim Tubing (Compression Fit)

| PART #     | DESCRIPTION  |
|------------|--|
| AA075IPSH  | 0.75" x 200, Flexible IPS Hose that can be glued with PVC Cement into standard 3/4" PVC fittings |
| AA075MHA   | MHT x 3/4" PVC Slip Adapter  |
| AA05MHA    | MHT x 1/2" PVC Spigot, Adapter   |
| AA075MHS   | MHT x 1/2" PVC Slip or 3/4" Spigot Adapter   |
| AA400PIA   | 0.4" Barb x 1/2" PVC Slip or 3/4" Spigot Adapter   |
| AA400PIAS  | 0.4" Barb x 1/2" PVC Spigot Adapter  |
| AAGRO      | Grommet for fittings with 0.4" Barb  |
| AT31AGR700 | Grommet for fittings with 0.7" Barb  |
| AT11-07737 | Dual Plug for Fittings and Drippers with 0.25" Barbs   |
| AA400-MP   | Plug for 0.4" Barb   |
| AA700-MP   | Plug for 0.7" Barb   |
| ATA45635   | 16mm x 16mm Adapter  |
| ATA45665   | 19mm x 19mm Adapter  |
| ATA45745   | 16mm Rubber Grommet  |
| ATA45755   | 19mm Rubber Grommet  |



# Agricultural Films

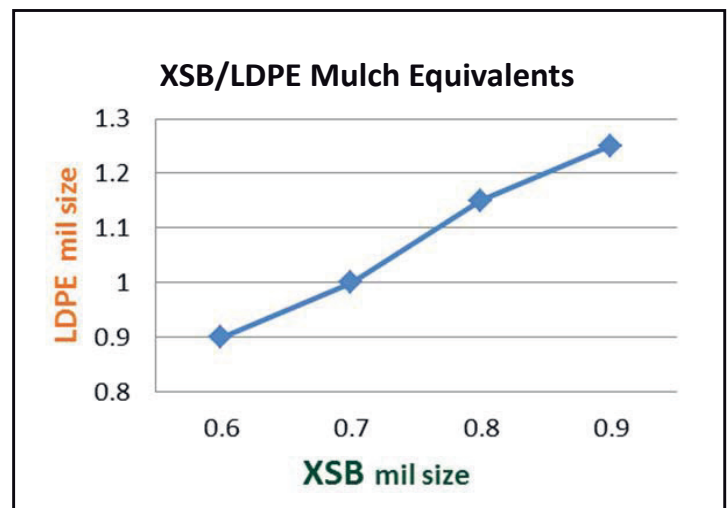
**IMAFLEX** USA INC.

## CAN-GROW XSB – Mulch Films

These are heavy duty, thin gauged and embossed mulches for raised bed fruit and vegetable production. They are made from our eXtra Strong Blend (XSB) material that possesses a higher crystallinity and makes our mulches very strong and durable on the field. **CAN-GROW XSB** provides all known benefits of plastic mulching including: better weed control, increased and earlier harvests, higher quality produce, and more efficient use of irrigation water to name a few.

### Features:

- 30% thinner and lighter, yet as strong as thicker LDPE mulches
- Available from 0.6 mil in common widths and colors
- Excellent puncture and tear resistance
- Textured for tight bed fit
- Season long weather protection package
- Easy application and removal



### Benefits:

- 30% less plastic consumption for covering an acre compared to industry standard LDPE mulches
- Thinner clear mulches allow for better soil heating for solarization
- Maximum footage per roll to reduce downtime and costs of high-speed layers
- Reduce mulch purchase and disposal costs

### Highlighted Specialty Products:

- Clear, smooth textured solarization films for pre-plant soil sanitation without fumigants

### Imaflex Plastic Mulch "Popular Sizes"

| PART # | WIDTH | MIL | ROLL LENGTH (FT) |
|--------|-------|-----|------------------|
|--------|-------|-----|------------------|

#### Black Embossed

|             |     |     |        |
|-------------|-----|-----|--------|
| EHH48606BM  | 48" | 0.6 | 6,000' |
| EHH48906BM  | 48" | 0.6 | 9,000' |
| EHH50906BM  | 50" | 0.6 | 9,000' |
| EHH5806BM   | 54" | 0.6 | 8,000' |
| EHH60906BM  | 60" | 0.6 | 9,000' |
| EHH60607BM  | 60" | 0.7 | 6,000' |
| EHH60608BM  | 60" | 0.8 | 6,000' |
| EHH724808BM | 72" | 0.8 | 4,800' |

#### White on Black

|             |     |      |        |
|-------------|-----|------|--------|
| EHH366075WB | 36" | 0.75 | 6,000' |
| EHH486075WB | 48" | 0.75 | 6,000' |
| EHH606075WB | 60" | 0.75 | 6,000' |

Custom sizes are available (minimum quantities apply)  
 Consult our expert Sales Team for more information.

### Berry Plastic Mulch "Popular Sizes"

| PART # | WIDTH | MIL | ROLL LENGTH (FT) |
|--------|-------|-----|------------------|
|--------|-------|-----|------------------|

#### Black

|            |     |     |        |
|------------|-----|-----|--------|
| EHP48409BM | 48" | 0.9 | 4,000' |
| EHP48609BM | 48" | 0.9 | 6,000' |
| EHP4841BM  | 48" | 1.0 | 4,000' |
| EHP48411BM | 48" | 1.1 | 4,000' |
| EHP50409BM | 50" | 0.9 | 4,000' |
| EHP5061BM  | 50" | 1.0 | 6,000' |
| EHP50411BM | 50" | 1.1 | 4,000' |
| EHP53409BM | 53" | 0.9 | 4,000' |
| EHP60409BM | 60" | 0.9 | 4,000' |

#### White/Black

|             |     |      |        |
|-------------|-----|------|--------|
| EHP3622WB   | 36" | 2    | 2,000' |
| EHP604125WB | 60" | 1.25 | 4,000' |

Custom sizes are available (minimum quantities apply)  
 Consult our expert Sales Team for more information.

## PLASTIC MULCH



Companies such as Imaflex and Berry Plastics use a high-molecular weight, high-density polyethylene (HMW-HDPE) resin to create an embossed mulch film. The high quality resins produce strong mulch that traps in moisture and heat. Plastic mulches combined with drip irrigation offer growers many benefits for highly-productive horticultural production of fresh fruits and vegetables over bare ground.

Some other benefits of using plastic mulch include: earlier season crops, higher yield, weed control and cleaner crops overall.



**\*\*Now Available: Ask your Sales Rep about the Biodegradable Mulch options.\*\***



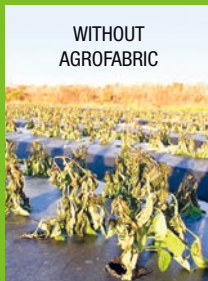
# Essential frost protection for every climate and crop need.

**W**hether your primary goal is emergency frost or freeze protection, overwintering, insect or wind protection, early and late growing seasons or seed germination – *with* improved quality and yield, there’s an AgroFabric® for your operation. Choose your level of protection in up-to-acre-size rolls for your fields during extreme weather events – without power, fuel or irrigation.

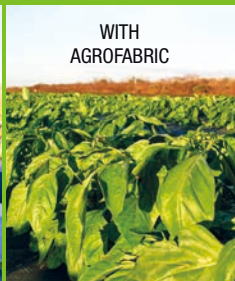
+2°

+4° **CHOOSE YOUR LEVEL OF PROTECTION** +8°

*AgroFabric creates a precise, favorable microclimate – elevating soil and air temperatures during the day, slowing heat loss during the night, raising minimum temperatures.*



WITHOUT AGROFABRIC  
Peppers survive six hours below freezing with 25°F with Pro25.



WITH AGROFABRIC



Container blocks prepared for quick application with Pro34 during temperature drops.



Ginseng plants protected with AgroFabric will be better quality and market-ready earlier.

Order today! For more information email [info@agrofabric.com](mailto:info@agrofabric.com) or visit [AgroFabric.com](http://AgroFabric.com)

## Row Cover

Available in many weights and sizes  
 (minimum order quantity may apply)

### LIGHTWEIGHT

|                                     |                                     |                                     |
|-------------------------------------|-------------------------------------|-------------------------------------|
| <b>PRO19</b><br>19 GRAMS<br>SQ. YD. | <b>PRO21</b><br>21 GRAMS<br>SQ. YD. | <b>PRO25</b><br>25 GRAMS<br>SQ. YD. |
|-------------------------------------|-------------------------------------|-------------------------------------|

### MEDIUM WEIGHT

|                                     |                                     |                                     |
|-------------------------------------|-------------------------------------|-------------------------------------|
| <b>PRO30</b><br>30 GRAMS<br>SQ. YD. | <b>PRO35</b><br>35 GRAMS<br>SQ. YD. | <b>PRO40</b><br>40 GRAMS<br>SQ. YD. |
|-------------------------------------|-------------------------------------|-------------------------------------|

### HEAVYWEIGHT

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <b>PRO50</b><br>30 GRAMS<br>SQ. YD. | <b>PRO70</b><br>35 GRAMS<br>SQ. YD. |
|-------------------------------------|-------------------------------------|

## WINTER BLANKET

|                                     |                                     |                                       |                                       |                                       |
|-------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| <b>PRO80</b><br>80 GRAMS<br>SQ. YD. | <b>PRO90</b><br>90 GRAMS<br>SQ. YD. | <b>PRO100</b><br>100 GRAMS<br>SQ. YD. | <b>PRO140</b><br>140 GRAMS<br>SQ. YD. | <b>PRO200</b><br>200 GRAMS<br>SQ. YD. |
|-------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|

## Mini-Tunnels - 72" Wide

| PART #                | DESCRIPTION                              | MIL | NUMBER OF HOLES    | LENGTH |
|-----------------------|--|-----|--------------------|--------|
| <b>Popular Sizes</b>  |  |     |                    |        |
| EHMTPG72315           | Pale Green                               | 1.0 | 500/m <sup>2</sup> | 3,000' |
| EHSHOOPS              | Galvanized Spring Hoops for Mini-Tunnels |     |                    |        |
| <b>Factory Orders</b> |  |     |                    |        |
|                       | White                                    | 1.0 | 500/m <sup>2</sup> | 3,000' |
|                       | Pale Green                               | 1.1 | 500/m <sup>2</sup> | 3,000' |

Custom sizes are available (minimum quantities apply) Consult our expert Sales Team for more information.

## ROW COVER



### Floating Row Cover

Popular choices for carrots, strawberries, lettuce, corn, melons, and many other crops.

Protects against:

- Frost
- Hail
- Heavy Rain
- Insects & Birds

Also used for overwintering strawberries.



### Mini-Tunnels

To protect & nurture your new transplants, Mini-Tunnels act like a small greenhouse over each bed helping transplants adjust and giving you a jump start on growth.

Available Sizes (increments of 5')  
 5' - 60' wide  
 100' - 1,000' long

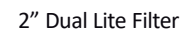
# DISC & SCREEN FILTERS

## NETAFIM PLASTIC FILTERS

| PART #         | DESCRIPTION    | SIZE                  | MAX. GPM |
|----------------|----------------|-----------------------|----------|
| AT 25A45-120   | Disc, 120 Mesh | 3/4" (MIPT)           | 18       |
| AT 25A45-140   | Disc, 140 Mesh | 3/4" (MIPT)           | 18       |
| AT 25A47-120   | Disc, 120 Mesh | 1" (MIPT)             | 26       |
| AT 25A47-140   | Disc, 140 Mesh | 1" (MIPT)             | 26       |
| AT 25A48-120   | Disc, 120 Mesh | 1" Super (MIPT)       | 35       |
| AT 25A48-140   | Disc, 140 Mesh | 1" Super (MIPT)       | 35       |
| AT 25A15-140   | Disc, 140 Mesh | 1 1/2" (MIPT)         | 35       |
| AT 25A30-120   | Disc, 120 Mesh | 2" Dual (MIPT)        | 120      |
| AT 25A30-140   | Disc, 140 Mesh | 2" Dual (MIPT)        | 120      |
| AT25A2DL-120   | Disc, 120 Mesh | 2" Dual Lite (MIPT)   | 110      |
| AT25A2DL-140   | Disc, 140 Mesh | 2" Dual Lite (MIPT)   | 110      |
| AT 25A50-120G  | Disc, 120 Mesh | 3" Twin (Groove)      | 175      |
| AT 25A50-140F  | Disc, 140 Mesh | 3" Twin (Flange)      | 175      |
| AT 25A50-200G  | Disc, 200 Mesh | 3" Twin (Groove)      | 175      |
| AT 25A3TL-120F | Disc, 120 Mesh | 3" Twin Lite (Flange) | 220      |
| AT 25A3TL-140F | Disc, 140 Mesh | 3" Twin Lite (Flange) | 220      |
| AT 25A53-120G  | Disc, 120 Mesh | 3" Angle (Groove)     | 200      |
| AT 25A53-140F  | Disc, 140 Mesh | 3" Angle (Flange)     | 200      |
| AT 25A78-120F  | Disc, 120 Mesh | 4" Twin (Flange)      | 450      |
| AT 25A78-140F  | Disc, 140 Mesh | 4" Twin (Flange)      | 450      |
| AT 25A80-120F  | Disc, 120 Mesh | 6" Twin (Flange)      | 600      |
| AT 25A80-140F  | Disc, 140 Mesh | 6" Twin (Flange)      | 600      |

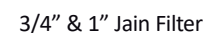
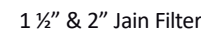
Netafim / Arkal  
 Disc Filter  
 Elements

| Colour | Mesh |
|--------|------|
| Red    | 120  |
| Black  | 140  |
| Green  | 200  |



## JAIN SPIN CLEAN PLASTIC FILTERS

| PART #       | DESCRIPTION      | SIZE             | MAX. GPM |
|--------------|------------------|------------------|----------|
| AA 4E075B150 | Screen, 150 Mesh | 3/4" MIPT x MIPT | 13       |
| AA 4E1B150   | Screen, 150 Mesh | 1" MIPT x MIPT   | 31       |
| AA 4E2P050   | Screen, 150 Mesh | 2" MIPT x MIPT   | 110      |
| AA 4E2P150   | Disc, 120 Mesh   | 2" MIPT x MIPT   | 110      |



### - Choosing a Screen or Disc Filter -

Screen filters are very effective in removing inorganic particles, such as sand and grit from a well. Disc filters are very effective in removing organic particulates, such as algae from an irrigation pond. For easy checking if a filter element needs cleaning, mount pressure gauges on each side of the filter. As the filter element gets dirty, the pressure difference will increase (as shown on the gauges) alerting you when it is time to clean.

# DISC & SCREEN FILTERS

## AMIAD PLASTIC FILTERS



3/4" Filter

1" Filter

1 1/2" Filter

2" Filter

2" Super Filter

| PART #           | DESCRIPTION      | SIZE                | MAX. GPM |
|------------------|------------------|---------------------|----------|
| AC 101-0059-120  | Screen, 120 Mesh | 3/4" (MIPT)         | 13       |
| AC 101-0059-155  | Screen, 155 Mesh | 3/4" (MIPT)         | 13       |
| AC 101-0059-200  | Screen, 200 Mesh | 3/4" (MIPT)         | 13       |
| AC 112-0054-120D | Disc, 120 Mesh   | 1" (MIPT)           | 31       |
| AC 112-0054-155D | Disc, 155 Mesh   | 1" (MIPT)           | 31       |
| AC 112-0059-120  | Screen, 120 Mesh | 1" (MIPT)           | 31       |
| AC 112-0059-155  | Screen, 155 Mesh | 1" (MIPT)           | 31       |
| AC 112-0059-200  | Screen, 200 Mesh | 1" (MIPT)           | 31       |
| AC 115-0054-120D | Disc, 120 Mesh   | 1 1/2" (MIPT) short | 35       |
| AC 116-0054-120D | Disc, 120 Mesh   | 1 1/2" (MIPT)       | 66       |
| AC 116-0054-155D | Disc, 155 Mesh   | 1 1/2" (MIPT)       | 66       |
| AC 116-0059-120  | Screen, 120 Mesh | 1 1/2" (MIPT)       | 66       |
| AC 116-0059-155  | Screen, 155 Mesh | 1 1/2" (MIPT)       | 66       |
| AC 116-0059-200  | Screen, 200 Mesh | 1 1/2" (MIPT)       | 66       |
| AC 122-0054-155D | Disc, 120 Mesh   | 2" (MIPT)           | 80       |
| AC 122-0054-155D | Disc, 155 Mesh   | 2" (MIPT)           | 80       |
| AC 122-0059-120  | Screen, 120 Mesh | 2" (MIPT)           | 80       |
| AC 122-0059-155  | Screen, 155 Mesh | 2" (MIPT)           | 80       |
| AC 126-0054-120D | Disc, 120 Mesh   | 2" Super (MIPT)     | 110      |
| AC 126-0054-155D | Disc, 155 Mesh   | 2" Super (MIPT)     | 110      |
| AC 126-0059-120  | Screen, 120 Mesh | 2" Super (MIPT)     | 110      |
| AC 126-0059-155  | Screen, 155 Mesh | 2" Super (MIPT)     | 110      |
| AC 126-0059-200  | Screen, 200 Mesh | 2" Super (MIPT)     | 110      |

### Amiad Filter Elements

| Colour | Mesh | Micron |
|--------|------|--------|
| Screen |      |        |
| Gray   | 20   | 800    |
| Green  | 30   | 500    |
| Blue   | 50   | 300    |
| White  | 75   | 200    |
| Red    | 120  | 130    |
| Yellow | 155  | 100    |
| Black  | 200  | 80     |
| Discs  |      |        |
| Red    | 120  | 130    |
| Black  | 155  | 100    |

### Mesh vs. Micron:

Mesh size refers to the mesh number and its relationship to the size of the openings in the mesh, it accounts for the size of particles that can pass through these openings. Micron is a measurement term frequently used to describe tiny particle sizes. It is equal to one-millionth of a meter or about one twenty-five thousandth of an inch.

## AMIAD STEEL FILTERS



2" In-Line Steel Filter

4" In-Line Steel Filter

| PART #               | DESCRIPTION      | SIZE         | MAX. GPM |
|----------------------|------------------|--------------|----------|
| AC 2-0200-1150-7-155 | Disc, 155 Mesh   | 2" (MIPT)    | 110      |
| AC 2-0200-1150-1-155 | Screen, 155 Mesh | 2" (MIPT)    | 110      |
| AC 2-0300-1110-7-155 | Disc, 155 Mesh   | 3" (Flanged) | 220      |
| AC 2-0300-1110-1-155 | Screen, 155 Mesh | 3" (Flanged) | 220      |
| AC 2-0400-1110-7-155 | Disc, 155 Mesh   | 4" (Flanged) | 350      |
| AC 2-0400-1110-1-155 | Screen, 155 Mesh | 4" (Flanged) | 350      |
| AC 2-0600-1110-7-155 | Disc, 155 Mesh   | 6" (Flanged) | 700      |
| AC 2-0600-1110-1-155 | Screen, 155 Mesh | 6" (Flanged) | 700      |

Need an Amiad Filter with a mesh not in our catalogue? We can order it for you!

## MANUAL SCREEN FILTERS

| PART #          | DESCRIPTION | SIZE | MAX. GPM |
|-----------------|-------------|------|----------|
| AT23SF19803-120 | 120 Mesh    | 3"   | 260      |
| AT23SF19804-120 | 120 Mesh    | 4"   | 450      |
| AT23SF19806-120 | 120 Mesh    | 6"   | 1100     |

# DISC-KLEEN

Automatic Filter Batteries



## AlphaDisc™ Disc Filter

This new disc filter from Netafim gives you ultimate irrigation system protection through a combination of precise depth filtration, high dirt-holding capacity and a unique easy-to-scale modular design that adapts with your changing flow rate needs.

### Additional Features:

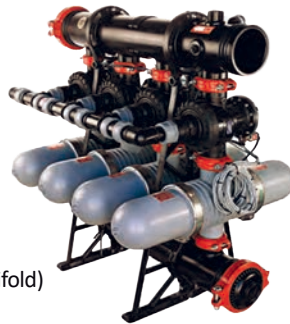
- AlphaDisc smart controller
- Prevents partial/full clogging to ensure system longevity and consistent irrigation
- Vertical installation
- Multiple Configurations

### Disc-Kleen Advantages:

- Proven depth filtration through the entire depth of the disc ring
- Non-corrosive, UV protected polypropylene materials resist rust & corrosion



2" x 3 Disc-Kleen (4" Manifold)



3" x 4 Disc-Kleen (6" Manifold)

### DISC-KLEEN AUTOMATIC FILTER BATTERIES

| PART #          | DESCRIPTION    | MANIFOLD SIZE | # OF FILTERS | MAX. GPM |
|-----------------|----------------|---------------|--------------|----------|
| AT 26ASK2A2-120 | Disc, 120 Mesh | 4"            | 2            | 150      |
| AT 26ASK2A2-140 | Disc, 140 Mesh | 4"            | 2            | 130      |
| AT 26ASK2A3-120 | Disc, 120 Mesh | 4"            | 3            | 225      |
| AT 26ASK2A3-140 | Disc, 140 Mesh | 4"            | 3            | 195      |
| AT 26ASK2A4-120 | Disc, 120 Mesh | 4"            | 4            | 300      |
| AT 26ASK2A4-140 | Disc, 140 Mesh | 4"            | 4            | 260      |
| AT 26ASK3A3-120 | Disc, 120 Mesh | 6"            | 3            | 450      |
| AT 26ASK3A3-140 | Disc, 140 Mesh | 6"            | 3            | 390      |
| AT 26ASK3A4-120 | Disc, 120 Mesh | 6"            | 4            | 600      |
| AT 26ASK3A4-140 | Disc, 140 Mesh | 6"            | 4            | 500      |
| AT 26ASK3A5-120 | Disc, 120 Mesh | 6"            | 5            | 750      |
| AT 26ASK3A5-140 | Disc, 140 Mesh | 6"            | 5            | 600      |

Looking for a Disc-Kleen Filter with a mesh/size not in our catalogue?  
 We can order it for you!

### Disc-Kleen Backflushing Action

Debris is captured along the walls & grooves of the filter element.



When backflush cycle begins, the valve changes position



The pressure in the outlet manifold loosens the disc stack.



A nozzle system inside the filter stack sprays pressurized water against the discs.



The discs spin which quickly & efficiently cleans them.



After backflushing, the stack of discs compress & resume filtration.



Netafim's Backflush Controller for automatic filters is available in 110 or 12 volt. The unit backflushes on time and pressure differential. Filter, valves & the controller are all factory assembled and tested, arriving ready to work on your farm.



## APOLLO DISC-KLEEN Automatic Filter Batteries

High Performance, Reliable, Cost Effective Filtration Solution

- Longer & wider filter elements, give amazing flow rates. Higher volume lowers your price per GPM of filtered water
- Re-designed piston means only 30 psi required to backflush which lowers your pump energy costs
- High density synthetic material makes the Apollo corrosion proof not corrosion resistant
- Smaller foot print, means easier to move or mount on a trailer

4 Unit Twin (10" Manifold)



4 Unit Angle (6" Manifold)



### APOLLO DISC-KLEEN AUTOMATIC FILTER BATTERIES

| PART #           | DESCRIPTION                 | MANIFOLD SIZE | MAX. GPM |
|------------------|-----------------------------|---------------|----------|
| AT 26ASK3APP4120 | 4 Unit Angle, 120 Mesh Disc | 6"            | 780      |
| AT 26ASK3APP4140 | 4 Unit Angle, 140 Mesh Disc | 6"            | 700      |
| AT 26ASK4PP3120  | 3 Unit Twin, 120 Mesh Disc  | 8"            | 1,170    |
| AT 26ASK4PP3140  | 3 Unit Twin, 140 Mesh Disc  | 8"            | 1,050    |
| AT 26ASK4PP4120  | 4 Unit Twin, 120 Mesh Disc  | 10"           | 1,560    |
| AT 26ASK4PP4140  | 4 Unit Twin, 140 Mesh Disc  | 10"           | 1,400    |
| AT 26ASK4PP5120  | 5 Unit Twin, 120 Mesh Disc  | 10"           | 1,950    |
| AT 26ASK4PP5140  | 5 Unit Twin, 140 Mesh Disc  | 10"           | 1,750    |
| AT 26ASK4PP6120  | 6 Unit Twin, 120 Mesh Disc  | 10"           | 2,340    |
| AT 26ASK4PP6140  | 6 Unit Twin, 140 Mesh Disc  | 10"           | 2,100    |
| AT 26ASK4PP7120  | 7 Unit Twin, 120 Mesh Disc  | 12"           | 2,730    |
| AT 26ASK4PP7140  | 7 Unit Twin, 140 Mesh Disc  | 12"           | 2,450    |
| AT 26ASK4PP8120  | 8 Unit Twin, 120 Mesh Disc  | 12"           | 3,120    |
| AT 26ASK4PP8140  | 8 Unit Twin, 140 Mesh Disc  | 12"           | 2,800    |

#### Apollo Filters: Less Water Used to Backflush

The Apollo filter may flush more frequently than a Media filter, however, the Apollo flushes five time faster! This faster backflush cycle saves 45% of water overall, drastically decreasing interruption of water flow to fields while irrigating, and maintains higher uniformity!



Alex-Tronix Backflush Controllers will operate any filter with any common input voltage and 24 VAC, 12 VDC and 12 VDC latching solenoids. The product offers either 4 or 8 progressive or sequential stations, plus a master valve, a new 1-30 psi digital pressure differential sensor with display, and a heavy duty transformer option.

# SCREEN FILTERS



## AMIAD MINI SIGMA

Amiad's Mini Sigma is a multi-screen, polymeric filter that combines Amiad's unique suction-scanning screen technology with a compact design and innovative self-cleaning mechanism. Raw water enters through the filter inlet passing through the multiple screens, as clean water flows through the filter outlet. The self-cleaning process begins when the switch senses the pre-set pressure differential.



### AMIAD MINI SIGMA FILTERS

| PART #        | DESCRIPTION         | MAX. GPM |
|---------------|---------------------|----------|
| AC 5000-XXX*  | 2" Threaded On-line | 132      |
| AC 5000A-XXX* | 2" Threaded Angle   | 132      |
| AC 5001-XXX*  | 3" Flanged On-line  | 220      |
| AC 5001A-XXX* | 3" Flanged Angle    | 220      |
| AC 5002-XXX*  | 4" Flanged On-line  | 352      |
| AC 5002A-XXX* | 4" Flanged Angle    | 352      |

\* - Replace "XXX" with preferred micron rating.

Ask our expert Sales Team about other available sizes.

## AMIAD FILTOMAT

The Amiad Filtomat M100 and MG Series are automatic, self-cleaning filters, ideal for remote installation sites. They have a water-driven self-cleaning mechanism that doesn't require an external power source for operation. The filtration process begins when raw water flows through the filter inlet into the coarse screen which pre-filters the water to protect the cleaning mechanism from large debris.



### FILTOMAT M100/MG SELF-CLEANING SCREEN FILTERS

| PART #     | FILTER TYPE | MAX. GPM | SIZE |
|------------|-------------|----------|------|
| AC M104LPN | M100-4500   | 793      | 4"   |
| AC M106XLP | M100-6800   | 1760     | 6"   |

- Suitable for low pressure (15-10 bar)
- Single or dual solenoid configuration
- Provides detailed filtration performance data
- Communication within Bluetooth technology range
- Offline information storage available

#### THE ADI-P CONTROLLER & APP

Control & monitor your Filtomat's filtration process, while receiving the data directly to your mobile device!

App data includes:

- Flush logs & frequency
- Current DP
- Outlet & inlet pressure
- Malfunctions & battery status



## NETAFIM SCRENGUARD™

Netafim's ScreenGuard™ filters provide superior protection for irrigation systems thanks to its extra-large filtration area. ScreenGuard™ incorporates the most effective self-cleaning mechanism, saving labour, water and energy.

#### Benefits and Features:

- Extra-large screen size allows the filter to work with higher flow rates and deal with harsh water conditions
- Filter body is made from high quality carbon steel with two-layer coating, offering excellent corrosion resistance



Get Better Control with the Netafim SG App!  
 The Netafim ScreenGuard™ Automatic Filter is blue-tooth activated with the Netafim SG app for better control of filter performance.



## NETAFIM MEDIA FILTERS

24" Double Chamber Media Filter



Automatic Media Filter batteries are available in a number of configurations. Two & three units are common choices for 16", 20", 24", 36" & 48" filters for flows ranging from 40 to 1125 GPM. The 16", 20" & 24" are also available as a single unit with manual backflush. The 48" is available in batteries of two to eight units for flows ranging from 400 to 2,400 GPM while providing 200 mesh filtration with #16 silica sand. Units are built of epoxy steel. Backflush on time and pressure differential in is 110 volt or 12 volt.

### EPOXY COATED STEEL MEDIA AUTOMATIC FILTER

| PART #        | DESCRIPTION              | CONNECTION SIZE | # OF FILTERS | AMOUNT OF MEDIA (lb) | GPM      |
|---------------|--------------------------|-----------------|--------------|----------------------|----------|
| AT 23MF16     | 16" Media Filter         | 2"              | 1            | 170                  | 35       |
| AT 23MF20     | 20" Media Filter         | 2"              | 1            | 250                  | 50       |
| AT 23MF24     | 24" Media Filter         | 2"              | 1            | 360                  | 80       |
| AT 23MF36     | 36" Media Filter         | 3"              | 1            | 800                  | 130      |
| AT 23MF48     | 48" Media Filter         | 3"              | 1            | 1,300                | 330      |
| AT 23MFBS3602 | 36" Media Filter Battery | 6"              | 2            | 720                  | 260-440  |
| AT 23MFBS3603 | 36" Media Filter Battery | 6"              | 3            | 1,080                | 390-660  |
| AT 23MFBS4802 | 48" Media Filter Battery | 8"              | 2            | 2,600                | 440-740  |
| AT 23MFBS4803 | 48" Media Filter Battery | 8"              | 3            | 3,900                | 660-1120 |

48" Single Chamber Media Filter



### SANDSTORM™ Single Chamber Metal Media Filter



**Product Advantages:**

- Single chamber filter allows for efficient filtration and backflush uniformity.
- Large top and side access ports make loading media and conducting maintenance easier.
- Two-layer coating for industry-leading high corrosion and UV protection.
- Easy assembly & flexible expansion
- Wide range of tank diameters and configurations to address all application needs.
- Maximum protection and reliability in harsh conditions.

### SANDSTORM™ NC Non-Corrosive Single Chamber Media Filter



**Product Advantages:**

- Maximum protection for systems irrigating with surface water containing high loads of organic materials, silt & clay
- Durable non-corrosive materials - the tank is made from PE liner with Aluminum collars, covered with glass fiber fabrics for maximum strength & protection
- Simple to operate; available in 36" & 48" tanks
- Easy assembly and flexible expansion
- Industry leading warranty - lifetime anti-corrosion warranty

# PRESSURE REGULATORS

## NETAFIM PRESSURE REGULATORS

| PART #        | SIZE   | DESCRIPTION          | PSI | # OF SPRINGS | MAX. GPM  |
|---------------|--------|----------------------|-----|--------------|-----------|
| AT 32PRV07512 | 3/4"   | Plastic, FIPT x MIPT | 12  | 1            | 3.5 to 20 |
| AT 32PRV07520 | 3/4"   | Plastic, FIPT x MIPT | 20  | 1            | 3.5 to 20 |
| AT 32PRV07535 | 3/4"   | Plastic, FIPT x MIPT | 35  | 1            | 3.5 to 20 |
| AT 32PRV07543 | 3/4"   | Plastic, FIPT x MIPT | 43  | 1            | 3.5 to 20 |
| AT 32PRV1512  | 1 1/2" | Plastic, MIPT x MIPT | 12  | 2            | 7 to 40   |
| AT 32PRV1515  | 1 1/2" | Plastic, MIPT x MIPT | 15  | 2            | 7 to 40   |
| AT 32PRV1520  | 1 1/2" | Plastic, MIPT x MIPT | 20  | 2            | 7 to 40   |
| AT 32PRV1525  | 1 1/2" | Plastic, MIPT x MIPT | 25  | 2            | 7 to 40   |
| AT 32PRV1535  | 1 1/2" | Plastic, MIPT x MIPT | 35  | 2            | 7 to 40   |
| AT 32PRV1543  | 1 1/2" | Plastic, MIPT x MIPT | 43  | 2            | 7 to 40   |
| AT 32PRV2415  | 2"     | Plastic, FIPT x FIPT | 15  | 4            | 15 to 80  |
| AT 32PRV2420  | 2"     | Plastic, MIPT x MIPT | 20  | 4            | 15 to 80  |
| AT 32PRV2425  | 2"     | Plastic, MIPT x MIPT | 25  | 4            | 15 to 80  |
| AT 32PRV2435  | 2"     | Plastic, MIPT x MIPT | 35  | 4            | 15 to 80  |
| AT 32PRV2443  | 2"     | Plastic, MIPT x MIPT | 43  | 4            | 15 to 80  |
| AT 32PRV2615  | 2"     | Brass, FIPT x FIPT   | 15  | 6            | 25 to 120 |
| AT 32PRV2625  | 2"     | Brass, FIPT x FIPT   | 25  | 6            | 25 to 120 |
| AT 32PRV2635  | 2"     | Brass, FIPT x FIPT   | 35  | 6            | 25 to 120 |
| AT 32PRV31015 | 3"     | Brass, FIPT x FIPT   | 15  | 10           | 35 to 200 |
| AT 32PRV31035 | 3"     | Brass, FIPT x FIPT   | 35  | 10           | 35 to 200 |



3/4" Pressure Regulator (1 spring)



1 1/2" Pressure Regulator (2 spring)



2" Pressure Regulator (4 spring)



2" Pressure Regulator (6 spring)



3" Pressure Regulator (10 spring)

## SENNINGER PRESSURE REGULATORS

| PART #       | SIZE        | DESCRIPTION              | PSI | MAX. GPM |
|--------------|-------------|--------------------------|-----|----------|
| AY PMR-12LF  | 3/4"        | Low Flow, FIPT x FIPT    | 12  | 0.1 to 8 |
| AY PMR-20LF  | 3/4"        | Low Flow, FIPT x FIPT    | 20  | 0.1 to 8 |
| AY PMR-25LF  | 3/4"        | Low Flow, FIPT x FIPT    | 25  | 0.1 to 8 |
| AY PMR-30LF  | 3/4"        | Low Flow, FIPT x FIPT    | 30  | 0.1 to 8 |
| AY PMR-10MF  | 3/4"        | Medium Flow, FIPT x FIPT | 10  | 4 to 16  |
| AY PMR-15MF  | 3/4"        | Medium Flow, FIPT x FIPT | 15  | 2 to 20  |
| AY PMR-25MF  | 3/4"        | Medium Flow, FIPT x FIPT | 25  | 2 to 20  |
| AY PMR-30MF  | 3/4"        | Medium Flow, FIPT x FIPT | 30  | 2 to 20  |
| AY PMR-40MF  | 3/4"        | Medium Flow, FIPT x FIPT | 40  | 2 to 20  |
| AY PMR-50MF  | 3/4"        | Medium Flow, FIPT x FIPT | 50  | 2 to 20  |
| AY PMR-15MF1 | 1"          | Medium Flow, FIPT x FIPT | 15  | 2 to 20  |
| AY PMR-40MF1 | 1"          | Medium Flow, FIPT x FIPT | 40  | 2 to 20  |
| AY PR-10HF   | 1 1/4" x 1" | High Flow, FIPT x FIPT   | 10  | 10 to 32 |
| AY PR-15HF   | 1 1/4" x 1" | High Flow, FIPT x FIPT   | 15  | 10 to 32 |
| AY PR-20HF   | 1 1/4" x 1" | High Flow, FIPT x FIPT   | 20  | 10 to 32 |
| AY PR-30HF   | 1 1/4" x 1" | High Flow, FIPT x FIPT   | 30  | 10 to 32 |
| AY PR-40HF   | 1 1/4" x 1" | High Flow, FIPT x FIPT   | 40  | 10 to 32 |
| AY PR-50HF   | 1 1/4" x 1" | High Flow, FIPT x FIPT   | 50  | 10 to 32 |



Senninger Pressure Regulator for Above or Below Ground Installation

Install after valve only.

Pressure Recommendations

| PSI | Application          |
|-----|----------------------|
| 12  | Thinwall Dripperline |
| 15  | Thinwall Dripperline |
| 20  | Non-PC Dripper       |
| 25  | Spray Stake          |
| 30  | PC Dripper           |
| 35  | PC Dripper           |
| 43  | Micro Sprinkler      |

## AIR VENTS & FLUSH ASSEMBLIES

Air/Vacuum Relief Vents are an important component in an Irrigation System. Their first role is to expel the air trapped in the irrigation system which dampens water hammer, and prevents ruptures and cracking. Their second role is to relieve the vacuum caused when the system/zone is shut down. This prevents the collapse of pipes and the suction of soil into dripperlines. Continuous Acting Vents will also expel air while the system is pressurized. Continuous Combination Vents are placed at:

- Pump stations
- Filter stations
- High points in the pipe network
- Upstream of manifolds

Guardian Vents are commonly used downstream of valves & manifolds and on the end of header lines/flush out lines.

### AIR/VACUUM RELIEF VENTS

| PART #        | DESCRIPTION                                |
|---------------|--|
| AT 65ARIB2PRO | 2" High Capacity Continuous Vent           |
| AT 65AR1B2PP  | 2" Combination (Plastic) (MIPT)            |
| AT 65AR1B1    | 1" Combination (MIPT)                      |
| AT 65AR1A2    | 2" Guardian (FIPT)                         |
| AT 65AR1A100  | 1" Guardian (MIPT)                         |
| GA FVO150     | 1.5" Orchard Air Vent/Flush Out Assembly   |
| GA FVO2       | 2" Orchard Air Vent/Flush Out Assembly     |
| GA FV2        | 2" Header Air Release / Flush Out Assembly |
| GA FV3        | 3" Header Air Release/Flush Out Assembly   |
| GA FV4        | 4" Header Air Release/Flush Out Assembly   |



2" High Capacity Continuous Vent



2" Combination Air/Vacuum Relief & Continuous Acting Air Vent (MIPT)



1" Combination Air/Vacuum Relief & Continuous Acting Air Vent (MIPT)



2" Guardian Air/Vacuum Relief Air Vent (FIPT)



1" Guardian Air/Vacuum Relief Air Vent (MIPT)



1.5" Orchard Air Vent/Flush Out Assembly



2" Orchard Air Vent/Flush Out Assembly:  
Pre-assembled with 2" Slip Connection, 2" Gate Valve, PVC Fittings & Relief Vent.



Header Air Release/Flush Out:  
Pre-assembled with Female Cam, 2" Gate Valve, PVC Fittings & Relief Vent.



## FLOW METERS

Both the **Model IRT & WST** are cast iron construction with a maximum working pressure of 230 psi and may be installed in a vertical, horizontal or oblique position. Both models are available with a Totalizer Register or a battery powered Digital Rate of Flow Register. The Rate of Flow Register not only keeps a total of gallons pumped but also displays the flow while operating in gallons per minute.

The **Model IRT** is a great economic solution for your monitoring needs. The Model WST features a very wide flow range, precision straightening vanes and low wear, long life impeller shaft & bearings. The WST also has shorter installation requirements which make plumbing in tight situations much easier.

The **Octave Ultrasonic Water Meter** is cast iron construction with a maximum working pressure of 230 psi. The vacuum sealed and tamper proof register provides durability and long-term performance. The multi-line digital LCD readout display provides immediate reporting and visual indicators. Each octave meter is pre-programmed before shipment for an instantaneous flow rate in GPM, and the specified user's requirements for Volume Totalizer Units and Output Resolution for Optional Pulsed Output.

The **WMR Water Meter** is the industry's smallest water meter providing a 2% accuracy over a wide range of flows. Made of cast iron, it has a maximum working pressure of 140 psi. it contains a in-line axial turbine which allows foreign matter to pass through the meter without clogging. The wide clearnace in the measuring chamber provide full pipe flow measurements and high reliability.

IRT Series  
Water Meter



WST Series  
Water Meter



Octave Ultrasonic  
Water Meter



WMR Water  
Meter



### NETAFIM FLOW METERS

| PART #          | SIZE | MODEL & REGISTER  | FLOW RANGE (GPM) |
|-----------------|------|-------------------|------------------|
| AT 36IRT3F      | 3"   | IRT, Totalizer    | 45 - 515         |
| AT 36IRT4F      | 4"   | IRT, Totalizer    | 50 - 715         |
| AT 36IRT6F      | 6"   | IRT, Totalizer    | 65 - 1,430       |
| AT 36IRT8F      | 8"   | IRT, Totalizer    | 130 - 2,574      |
| AT 36IRT3F      | 3"   | IRT, Digital      | 45 - 515         |
| AT 36IRT4F      | 4"   | IRT, Digital      | 50 - 715         |
| AT 36IRT6F      | 6"   | IRT, Digital      | 65 - 1,430       |
| AT 36IRT8F      | 8"   | IRT, Digital      | 130 - 2,574      |
| AT 36WST6F      | 6"   | WST, Totalizer    | 15 - 1,489       |
| AT 36WST6FMPE   | 6"   | WST, Rate of Flow | 15 - 1,489       |
| AT 36OCT06GAL10 | 6"   | Octave, Digital   | 3-1,500          |
| AT 36WMR2ER     | 2"   | WMR, Digital      | 2 - 110          |
| AT 36WMR2T10    | 2"   | WMR, Totalizer    | 2 - 110          |

Flow Meters with Totalizer Register include a Pulse Reed Switch for pulsed output. 3" & 4" = 10 gal. per pulse, 6" & 8" = 100 gal. per pulse.

Listed here is only a small number of available models, registers & sizes. Contact our expert Sales Team for other ordering options.

Netafim Flow Meters are for irrigation water only.

#### Installation Requirements:

For 3" to 8" Model IRT Flow Meters, a straight length of pipe, of the same size, 10 x diameter before and 5 x after, for accuracy within ± 2%.

For 3" to 8" Model WST Flow Meters, a straight length of pipe, of the same size, 5 x diameter before and 2 x after, for accuracy within ± 2%.

For Octave Meters, 2 diameters of straight pipe are required before or after when installing a 90° elbow, or before a tee connection for accuracy within ± 1.5%.

# MixRite™

## FERTILIZER INJECTORS

Introducing the competitive MixRite Fertilizer Injector from Israel. MixRites are simple, accurate and reliable to operate; water flow drives a piston which then draws the solution from a tank. This solution is added constantly in proportion with the water flow to maintain the precise ratio. Ratio's are easy to adjust to meet the changing needs of your crop. MixRite works great for:

- Fertigation
- Disinfecting
- Medication
- pH Control
- EC Control

Our favourite MixRite feature is how incredibly easy it is to replace seals. MixRite stands out for making the process low cost and simple. Included with each MixRite is a full set of replacement seals.



A570 MixRite  
 3/4" MIPT  
 Includes suction  
 hose & screen,  
 and mounting  
 bracket.

500 Series  
 PVDF model  
 with flow rate  
 of .5 to 11  
 GPM

TF5-002 MixRite  
 1" MIPT  
 Includes suction  
 hose & screen,  
 and mounting  
 bracket.

### MIXRITE FERTILIZER INJECTORS

| PART #           | MODEL    | PRESSURE RANGE, PSI | FLOW RANGE (GPM) | FEED RATIO  |
|------------------|----------|---------------------|------------------|-------------|
| AT META570       | A570     | 3 to 120            | 0.1 to 11        | 0.3 to 2.0% |
| AT METATF5       | TF5-002  | 15 to 120           | 0.8 to 22        | 0.2 to 2.0% |
| AT METATF10      | TF10-002 | 15 to 120           | 2 to 45          | 0.2 to 2.0% |
| AT METATF25      | TF25-002 | 15 to 120           | 5 to 110         | 0.3 to 2.5% |
| AT M569PDVFONOFF |          | 15 to 120           | up to 11         | 0.1 to 0.9% |



TF10-002 MixRite  
 1 1/2" MIPT  
 Includes suction  
 hose & screen,  
 and mounting  
 bracket.  
 Shown with  
 optional leg stand.

TF25-002 MixRite  
 2" MIPT  
 Includes suction  
 hose & screen,  
 leg stand, and  
 mounting bracket.

Looking for a MixRite Injector with different feed ratios? Pulse transmitting, fixed Rate, dosing by pass or injectors for chlorination and harsh chemicals? MixRite makes many more injectors to suit a wide variety of applications.

## FERTILIZER INJECTORS

Mazzei Injectors are high efficiency, Venturi-type, differential pressure injectors. With no moving parts and molded from chemical resistant polypropylene, Mazzei Injectors are both trouble free and durable. Listed here are only a small number of injector models available from Mazzei. We also fabricate Injector Manifolds in both PVC & Aluminum.

Contact your Sales Rep for more information.

Assembled 1 1/2" Mazzei Injector on 4" Wade Rain Manifold



Mazzei Injector



Assembled 3/4" Mazzei Injector on 2" Manifold



### MAZZEI FERTILIZER INJECTORS

| PART #    | SIZE  | MODEL  | PRESSURE RANGE, PSI | FLOW RANGE (GPM) | FEED RATIO  |
|-----------|---|--|---------------------|------------------|-------------|
| AC I0283  | 1/2"  | 283  | 0.2 to 0.8          | 1.1 to 6.0       | 0.3 to 2.0% |
| AC I0684  | 3/4"  | 684  | 3.5 to 17.2         | 6.6 to 25.0      | 0.2 to 2.0% |
| AC I1078  | 1"  | 1078-2   | 5.5 to 26.8         | 17.0 to 94.5     | 0.2 to 2.0% |
| AC I1583A | 1 1/2"  | 1583A  | 10.7 to 48.0        | 18.3 to 232      | 0.3 to 2.5% |
| AC I2081  | 2"  | 2081   | 32.4 to 158.0       | 61.0 to 631.0    |             |
| AC IK184  | Suction Assembly for 3/4" Mazzei Injectors        |  |                     |                  |             |
| AC IK183  | Suction Assembly for 1: & 1 1/2" Mazzei Injectors |  |                     |                  |             |
| AC IK282  | Suction Assembly for 2" Mazzei Injectors          |  |                     |                  |             |
| GA FIM2   | 684   | Assembled 2" Mazzei Injector Manifold, Slip by Slip (PVC)                  |                     |                  |             |
| GA FIM3   | 1078-2  | Assembled 3" Mazzei Injector Manifold, Slip by Slip (PVC)                  |                     |                  |             |
| GA FIW4   | 1583A   | Assembled 4" Mazzei Injector Manifold, Male by Wade Rain Coupler (Female)  |                     |                  |             |
| GA FM04   | 1583A   | Assembled 4" Mazzei Injector Manifold, Groove by Wade Rain Coupler (Fem.). |                     |                  |             |
| GA FM06   | 1583A   | Assembled 6" Mazzei Injector Manifold, Groove by Wade Rain Coupler (Fem.). |                     |                  |             |
| GA FM08   | 2081  | Assembled 8" Mazzei Injector Manifold, Flange by Flange                    |                     |                  |             |



The FertiKit 3G is a fully configurable fertilizer/acid dosing unit. It can accommodate a variety of dosing channels, boosters, NMC Controllers, peripherals and accessories to meet a vast range of applications and infrastructure constraints.

Basic functions include: controlled mixing of fertilizers/acids with source water into a homogenous nutrient solution, EC/pH correction of nutrient solution and water pre-treatment.

Please contact your Sales Team more information on ordering this product.



# HUG YOUR PLANTS. PROFESSIONALLY.

# NetBow™ Container Irrigation



Uniform Water Distribution



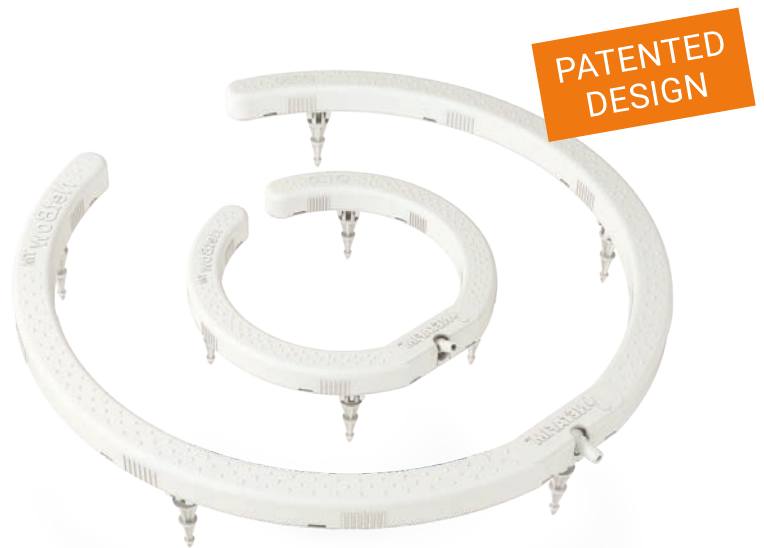
Superior Clog Resistance



Quick Action Installation



[NETAFIMUSA.COM/NETBOW](https://NETAFIMUSA.COM/NETBOW)



# ALPHADISC™ Disc Filter

# BEST RESULTS IN THE FIELD



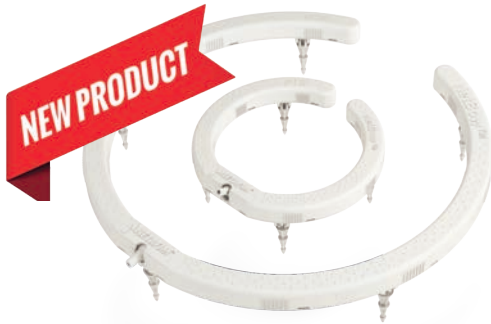
COMING SPRING 2022



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# CONTAINER IRRIGATION



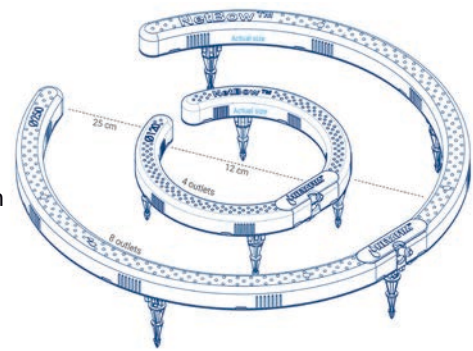
## NETBOW™

NetBow is an innovative, user friendly container irrigation multi-outlet dripper arc. It was developed to address the needs of high-value soilless pot-irrigated crops such as Cannabis and blueberries that require unique irrigation and fertigation knowledge.

With NetBow, roots develop in every square inch of the container, including the top layer, where root development is critical.

### Specifications:

- Compatible with 10 - 60 L containers
- Diameter: 5-10 in.
- Outlets: 4-8 dripping outlets
- Max. Operating Pressure: 58 PSI
- Flow Rate: 4 or 8 dripping outlets with flow of 0.53 GPH each at 14.5 PSI



Contact your Sales Rep to order this product today!

## PLASTIC WEIGHT ASSEMBLY



| PART #         | TUBE LENGTH | TUBE COLOUR | WEIGHT   |
|----------------|-------------|-------------|----------|
| AT 01-HBA2W-18 | 18"         | White       | SlimLine |
| AT 01-HBA2W-24 | 24"         | White       | SlimLine |
| AT 01-HBA2W-30 | 30"         | White       | SlimLine |
| AT 01-HBA2W-36 | 36"         | White       | SlimLine |
| AT 01-HBA2W-42 | 42"         | White       | SlimLine |

Netafim's SlimLine Weight for Hanging Baskets

Each assembly has a 0.5 GPH Pressure Compensated Dripper with CNL Check Valve to prevent line drainage.

## MULTI-OUTLET (MOD) DRIPPER ASSEMBLY



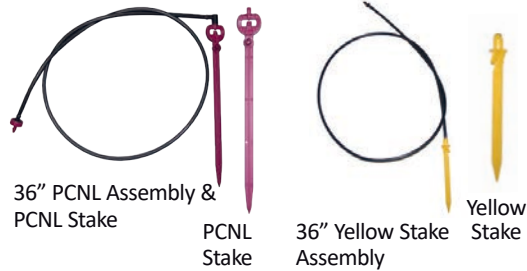
| PART #                    | TUBE LENGTH                                       | TUBE COLOUR | STAKE  |
|---------------------------|---|-------------|--------|
| 4-Way Manifold:           |   |             |        |
| AT 014DM-2424ANGW         | 4 @ 24"   | White       | Angled |
| AT 014DM-3030ANGW         | 4 @ 30"   | White       | Angled |
| AT 014DM-3636ANGW         | 4 @ 36"   | White       | Angled |
| 4-Way Stackable Manifold: |   |             |        |
| AT 014DMS-2424            | 4 @ 24"   | White       | Angled |
| Dripper for MOD:          |   |             |        |
| AT 01-WPCJL-8NO           | Pressure Compensated 2.0 GPH with CNL Check Valve |             |        |

Order the Pressure Compensated Dripper (2.0 GPH) with CNL Check Valve separately.

Spray Stake Assemblies work very well for large nursery pots & pot-in-pot systems. Available pre-assembled, Spray Stakes work great for containers that dry out quickly or need higher flows. PCNL Spray Stakes are pressure compensated with integral check valves.

## CONTAINER IRRIGATION

| SPRAY STAKES   |   |     |
|----------------|---|-----|
| PART #         | DESCRIPTION   | GPH |
| AT 01-SSAYL-36 | Assembly, Barb Adapter, 36" Black Tubing & Yellow Stake | 3.0 |
| AT 01-SSY      | Yellow Spray Stake                                      | 3.0 |
| AT 01-SSG      | Green Spray Stake                                       | 6.0 |
| AT 01-SSB      | Black Spray Stake                                       | 7.0 |



### PCNL - SPRAY STAKES

| PART #         | DESCRIPTION   | ORDER STAKE | GPH  |
|----------------|---|-------------|------|
| AT 01PSD032-36 | Assem., Plum Dripper, 36" Black Tubing & 5mm Elb.   | Plum        | 3.2  |
| AT 01PSD066-36 | Assem., Orange Dripper, 36" Black Tubing & 5mm Elb. | Grey        | 6.6  |
| AT 01PSD079-36 | Assem., Brown Dripper, 36" Black Tubing & 5mm Elb.  | Brown       | 7.9  |
| AT 01PSD106-36 | Assem., Blue Dripper, 36" Black Tubing & 5mm Elb.   | Blue        | 10.6 |
| AT 01PSDSPL1   | PCNL, Plum Single Spray Stake                       |             |      |
| AT 01PSDSGY1   | PCNL, Grey Single Spray Stake                       |             |      |
| AT 01PSDSGY2   | PCNL, Grey Double Spray Stake                       |             |      |

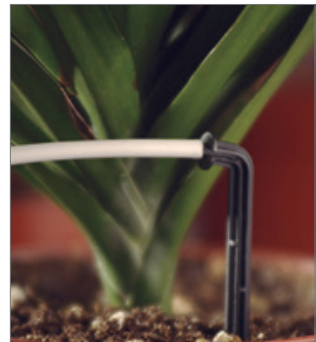


### PC ANGLE STAKE ASSEMBLY

| PART #            | TUBE LENGTH | GPH  |
|-------------------|-------------|------|
| AT 01-WPCJL2AW-30 | 30"         | 0.5  |
| AT 01-WPCJL2AW-36 | 36"         | 0.5  |
| AT 01-WPCJL3AW-30 | 30"         | 0.74 |
| AT 01-WPCJL3AW-36 | 36"         | 0.74 |



Pressure Compensating Angle Barbed Stake Assemblies are available in 30" or 36" lengths, and are a great choice for greenhouse vegetable production.



### WPC JUNIOR DRIPPERS

| PART #         | CONNECTION  | COLOUR       | GPH  |
|----------------|-------------|--------------|------|
| AT 01-WPCJL-2  | Barb x Barb | Red          | 0.5  |
| AT 01-WPCJL-3  | Barb x Barb | Blue         | 0.74 |
| AT 01-WPCJL-4  | Barb x Barb | Grey         | 1.0  |
| AT 01-WPCJL-12 | Barb x Barb | Plum         | 3.2  |
| AT 01WPCJL-25  | Barb x Barb | Orange/Grey  | 6.6  |
| AT 01WPCJL-30  | Barb x Barb | Orange/Brown | 7.9  |
| AT 01WPCJL-40  | Barb x Barb | Orange/Blue  | 10.6 |
| AT 01WPCJL-2NO | Barb x Hub  | Red          | 0.5  |
| AT 01WPCJL-4NO | Barb x Hub  | Grey         | 1.0  |
| AT 01WPCJL-8NO | Barb x Hub  | Green        | 2.0  |



# TUBING



## NETAFIM TUBING & SPAGHETTI TUBING



Spaghetti Tubing for Dripper Assemblies, MOD's and "Blue" Drop Tube for Micro Sprinklers & Foggers are available by the roller or bundle of pre-cuts in popular sizes.



Spaghetti & Netafim Tubing will not breakdown in sunlight.

| PART #   | DESCRIPTION                       | COLOUR | LENGTH |
|--|-----------------------------------|--------|--------|
| <b>NETAFIM TUBING (PLAIN):</b>   |                                   |        |        |
| AT 520-620-100   | 16 mm, 0.52" x 0.62"              | Black  | 100'   |
| AT 520-620-500   | 16 mm, 0.52" x 0.62"              | Black  | 500'   |
| AT 520-620-1000  | 16 mm, 0.52" x 0.62"              | Black  | 1,000' |
| AT 520-620-1000W   | 16 mm, 0.52" x 0.62"              | White  | 1,000' |
| AT 600-700-100   | 18 mm, 0.60" x 0.70"              | Black  | 100'   |
| AT 600-700-500   | 18 mm, 0.60" x 0.70"              | Black  | 500'   |
| AT 600-700-1000  | 18 mm, 0.60" x 0.70"              | Black  | 1,000' |
| AT 600-700-1000W   | 18 mm, 0.60" x 0.70"              | White  | 1,000' |
| AT 820-940-500   | 20 mm, 0.82" x 0.94"              | Black  | 500'   |
| AT 820-940-500W  | 20 mm, 0.82" x 0.94"              | White  | 500'   |
| AT 106-120-500W  | 1", 1.06" x 1.20"                 | White  | 500'   |
| <b>NETAFIM TUBING (PRE-PUNCHED):</b>   |                                   |        |        |
| AT 520-620-100024  | 16 mm, 0.52" x 0.62", 24" spacing | Black  | 1,000' |
| AT 520-620-1000W24   | 16 mm, 0.52" x 0.62", 24" spacing | White  | 1,000' |
| AT 600-700-100024  | 18 mm, 0.60" x 0.70", 24" spacing | Black  | 1,000' |
| AT 600-700-1000W24   | 18 mm, 0.60" x 0.70", 24" spacing | White  | 1,000' |
| AT 106-120-50036W  | 1", 1.06" x 1.20", 36" spacing    | White  | 500'   |
| AT 106-120-50036W  | 1", 1.06" x 1.20", 36" spacing    | White  | 500'   |
| <b>SPAGHETTI TUBING:</b>   |                                   |        |        |
| AT 15FPEW53  | For Drippers with barbs & MOD     | White  | 1000'  |
| AT MVU500  | For Sprinklers & Foggers          | Blue   | 500'   |
| <b>PRE-CUT SPAGHETTI TUBING (For Drippers with Barb &amp; MOD Assemblies)</b>  |                                   |        |        |
| AT 15FPEW53-18   | 100 per bundle                    | White  | 18"    |
| AT 15FPEW53-24   | 100 per bundle                    | White  | 24"    |
| AT 15FPEW53-30   | 100 per bundle                    | White  | 30"    |
| AT 15FPEW53-36   | 100 per bundle                    | White  | 36"    |
| <b>PRE-CUT DROP (Tubing for Sprinklers &amp; Foggers with Barb x Barb Connectors)</b>  |                                   |        |        |
| AT MBE12B  | 50 per bundle                     | Blue   | 12"    |
| AT MBE18B  | 50 per bundle                     | Blue   | 18"    |
| AT MBE24B  | 50 per bundle                     | Blue   | 24"    |
| AT MBE30B  | 50 per bundle                     | Blue   | 30"    |
| AT MBE36B  | 50 per bundle                     | Blue   | 36"    |
| <b>ASSEMBLED DROP (Tubing for Netafim Sprinklers includes: barb x barb connector, drop tube, weight &amp; sprinkler connector)</b> |                                   |        |        |
| AT 0300HSAC24  | 25 per bundle                     | White  | 24"    |

# DRIPPER COMPONENTS & TOOLS

## Dripper Assembly & Micro-Sprinkler Components



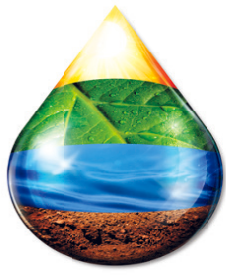
| PART #  | DESCRIPTION                           |
|---|---------------------------------------|
| <b>COMPONENTS FOR PLASTIC WEIGHT ASSEMBLIES</b>       |                                       |
| AT 11-07008SC   | White Plastic SlimLine Weight         |
| <b>COMPONENTS FOR MULTI-OUTLET DRIPPER ASSEMBLIES</b> |                                       |
| AT 01-ADP2WPF   | 2-Way Manifold (flat)                 |
| AT 01-ADP4WPF   | 4-Way Manifold (flat)                 |
| AT 01-ADP4WPFS  | 4-Way Manifold (stackable)            |
| AT 01-MOD-SO  | Arrow Dripper                         |
| AT 01-MODSA-ANG                                       | Angle Arrow Dripper                   |
| <b>MISCELLANEOUS DRIPPER COMPONENTS</b>               |                                       |
| AT 11-01001B  | Angle Barb Stake                      |
| AT 11-09006   | 5 mm Connector Barb x Thread          |
| AT MJBBXB9  | Barbed Connector for Blue Drop Tubing |
| AT MW035  | Orange Weight                         |
| AT 11002520   | 5 mm 90° Elbow for Spray Stakes       |
| AX XMV-025  | Micro-Valve, 1/4" Barb x Barb         |

## PUNCHES FOR DRIPPERS, DRIPPERLINES & MICRO-SPRINKLERS

### DRIPPER ASSEMBLY & MICRO-SPRINKLER COMPONENTS



| PART #   | DESCRIPTION  |
|--|--|
| <b>PUNCHES FOR DRIPPERS &amp; MICRO-SPRINKLERS</b> |  |
| AA DP4R  | Pliers Punch, 0.16" hole, fits 16 & 18 mm Netafim Tubing |
| AT 77-99700  | 4/7 Punch  |
| AT 682901033                                       | Blue 3 mm Punch  |
| AT 31AP025   | 2.5 mm Ejector Punch                                     |
| BE RP  | Red Handle Economy Punch                                 |
| AA DPA2  | 2 mm Pliers Punch - Adjustable to 16-32 mm Tubing        |
| <b>PUNCHES FOR DRIPPERLINE</b>                     |  |
| AA HP400   | Tool Punch Pro Grip for 400 Series                       |
| <b>WIRE TIES FOR THINWALL DRIPPERLINES</b>         |  |
| AT WIRETIE6  | 6" Stainless Steel Wire Tie for 5/8" Dripline Connection |
| AT WIRETIE7  | 7" Stainless Steel Wire Tie for 7/8" Dripline Connection |
| AT WIRETOOL  | Wire Tie Swivel Tightener Tool                           |



**JAIN**

# THE MOST WATER-EFFICIENT PRODUCTS FOR GREENHOUSES AND NURSERIES

With the greatest cost-savings, too.



CLICK-TIF EMITTERS



SPIN CLEAN FILTERS



MODULAR SPRINKLERS



4-WAY MODULAR FOGGER



GREEN SPIN SPRINKLER



AQUA SPRAY STICKS

[JAINSUSA.COM](http://JAINSUSA.COM)

JAIN IRRIGATION FRESNO, CA

# FOGGERS - MISTERS - MICRO SPRINKLERS



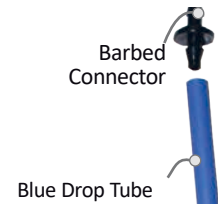
VibroNet Mister



SpinNet



Hanging Assembly



## NETAFIM GREENHOUSE SPRINKLERS

| PART #                 | DESCRIPTION  |
|------------------------|--|
| <b>COOLNET FOGGER:</b> |  |
| AT 0303420LL           | 4-Way Fogger with Cross & LPD, 1.9 GPH per nozzle          |
| <b>VIBRONET:</b>       |  |
| AT 0354040             | Mister (blue), 9.2 GPH                                     |
| AT 0354050             | Mister (green), 11.7 GPH                                   |
| <b>SPINNET:</b>        |  |
| AT 03551200070BL       | Blue Spinner, Red Body, Red Anti-mist & LPD, 18.4 GPH      |
| AT 03551600090GL       | Green Spinner, Brown Body, Brown Anti-mist & LPD, 23.4 GPH |
| AT 03551600090B        | Blue Spinner, Brown Body, Brown Anti-mist & LPD, 23.5 GPH  |
| AT 03551200070L        | Grey Spinner, Red Body, Red Anti-mist & LPD, 18.4 GPH      |
| AT 03551200070GL       | Green Spinner, REd Body, Red Anti-mist & LPD, 18.4 GPH     |
| AT 03552000090L        | Grey Spinner, Yellow Body, Brown Anti-mist & LPD, 23.0 GPH |
| <b>FITTINGS:</b>       |  |
| AT 0340017             | Netafim Leak Protection Device                             |
| AT 03228               | Female x 3/8" Taper Thread                                 |
| AT 77-GROMET           | Grommet for 3/8" Thread                                    |
| AT 03220B              | Female x Barb  |
| AT 03208               | Male x Male  |
| AT 03302B              | Netafim Female x Dan Female                                |
| AT 03301B              | Plug   |

Leak Protection Device (LPD)



Female x 3/8" Thread



Grommet for 3/8" Thread



Female x Barb



Male x Male



Netafim Female x Dan Female



Plug



Orange Weight



Female x Barb



Leak Prevention Device (LPD)



CoolNet, VibroNet or SpinNet

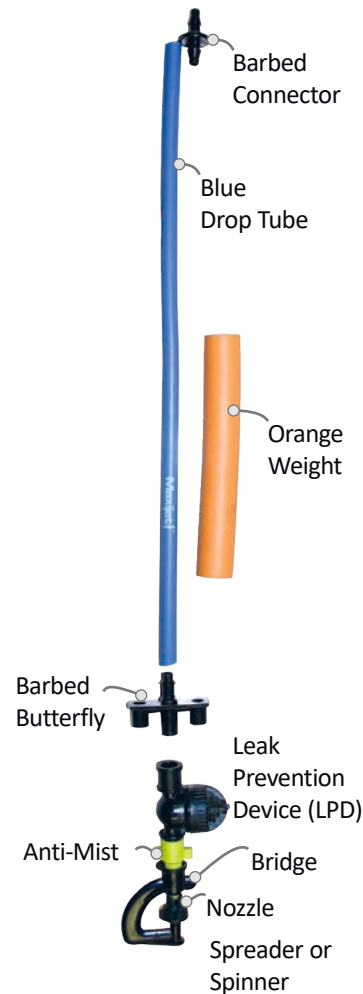


# FOGGERS - MISTERS - MICRO SPRINKLERS

## DAN GREENHOUSE SPRINKLERS

| PART #             | DESCRIPTION  |
|--------------------|--|
| <b>ASSEMBLIES:</b> |  |
| AT 11252395        | Orange Nozzle & Anti-mist, Black Round Spinner & LPD |
| AT 11252396        | Yellow Nozzle & Anti-mist, Black Round Spinner & LPD |
| AT 11254595        | Orange Nozzle & Anti-mist, Green Spinner & LPD       |
| AT 11254596        | Yellow Nozzle & Anti-mist, Green Spinner & LPD       |
| <b>COMPONENTS:</b> |  |
| AT 77-930504       | Violet Noz., 9.2 gph                                 |
| AT 77-930500       | Brown Noz., 11.4 gph                                 |
| AT 77-930509       | Grey Noz., 18.5 gph                                  |
| AT 77-930502       | Green, Noz. 27.7 gph                                 |
| AT 77-930505       | Orange Noz., 31.7 gph                                |
| AT 77-930506       | Yellow Noz., 42.3 gph                                |
| AT 77-930503       | Blue Noz., 52.8 gph                                  |
| AT 77-930507       | Red Noz., 68.7 gph                                   |
| AT 77-930508       | Black Noz., 79.3 gph                                 |
| AT 77-930208       | Black Round Spinner                                  |
| AT 77-930212       | Green Spinner  |
| AT 77-930305       | Oblong Orange Spinner                                |
| AT 77-930308       | Single Wing Black Spinner                            |
| AT 77-930704       | Violet Misting Spreader                              |
| AT 77-930706       | Yellow Flat Spreader                                 |
| AT 77-930705       | Orange Spreader (Small Diam.)                        |
| AT 77-930702       | Black 90 Degree                                      |
| AT 77-930707       | Red 180 Degree                                       |
| AT 77-930703       | Blue Spray Strip                                     |
| AT 77-942002       | Green Anti-Mist, 10.6 gph                            |
| AT 77-942004       | Orange Anti-Mist, 18.5 gph                           |
| AT 77-942006       | Yellow Anti-Mist, 23.8 gph                           |
| AT 77-942003       | Blue Anti-Mist, 23.8 gph                             |
| AT 77-033103       | Blue, Fogger 1.8 gph                                 |
| AT 77-033105       | Orange, Fogger 3.6 gph                               |
| AT 77-033107       | Red Fogger, 5.4 gph                                  |
| AT 11-790308       | LPD for Sprinklers (Black)                           |
| AT 77-093123       | LPD for Foggers (Blue)                               |
| AT 77-930100       | Bridge for Sprinklers                                |
| AT 77-942200       | 4-Way Cross  |
| AT 77-942008       | Plug   |
| AT 77-995008       | 12" Black Stake                                      |
| AT 77-941008       | Barbed Butterfly                                     |
| AT 77-943333       | 3/8" Butterfly                                       |
| AT 77-941103       | 3/16" Butterfly                                      |
| AT 77-941508       | 3/8" by Barb Butterfly                               |
| AT 77-935108       | 1/2" MIPT Adapter                                    |
| AT 77-GROMET       | Grommet for 3/8" Thread                              |

Hanging Assembly



Dan Fogger





## BAUER RAINSTAR E



Bauer's Rainstar E Traveller, is our most popular choice for supplying a large water volume when & where you need it. Rugged, flexible and durable are the cornerstones of Bauer's design strategy. With an impressive list of standard features and options, Bauer delivers travellers that adapt perfectly to your specific needs.

The RAINSTAR Traveller is a popular choice to irrigate Tobacco, Vegetable, Horticulture, & Nursery Crops.

### Overview of Options

Easily control each traveller pull with the Ecostar 6000. This new controller will also log/analyze irrigation data and integrates with Bauer's SmartRain App.



A traveller full of water may add up to 9,200 additional pounds of weight. A PTO Driven Blow-Out Compressor will force the water out the PE-Pipe, making the traveller much safer and easier to move.



The TVR 60, radial full-flow turbine with Vario Nozzle Flow Control delivers extremely low pressure loss, saving money & energy while providing precise and uniform retraction over a wide performance range.



Four Wheel fixed Tandem Axle, and Four Wheel Swing Axles, along with Flotation Tires, for transport safety and reducing soil compaction.



Hydraulic or Mechanical Swivel Aid makes for light work of traveller set-up and positioning.



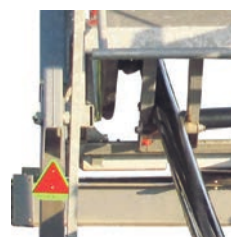
Special material composition and processing of Bauer heavy duty PE-Pipe ensures long lasting, even under the toughest conditions.



Unit Connection on both sides means a fast and convenient hook up with no repositioning of supply line.



Winding Gear & Guide ensures a precise and uniform retrieval of PE-Pipe.



Turn Table allows you to turn reels effortlessly to any position.



# BAUER RAINSTAR E



## Models & Performance

| MODELS                | TYPE             | PE-PIPE (inches) | PE-PIPE LENGTH (feet) | STRIP WIDTH        | CONSUMPTION (GPM)  | NOZZLE SIZES (inches) | CONNECTION PRESSURE (PSI) | WEIGHT (lbs)  |               |
|-----------------------|------------------|------------------|-----------------------|--------------------|--------------------|-----------------------|---------------------------|---------------|---------------|
|                       |                  |                  |                       |                    |                    |                       |                           | WITH WATER    | LESS WATER    |
| <b>E<sup>11</sup></b> | 90-480           | 2.84             | 1,575                 | 177-246            | 74.8-193.7         | 0.60-0.90             | 72.5-159.5                | 12,335        | 7,822         |
|                       | 100-350          | 3.31             | 1,148                 | 190-308            | 96.9-339.0         | 0.70-1.20             | 72.5-159.5                | 11,662        | 7,291         |
|                       | 100-380          | 3.29             | 1,247                 | 190-295            | 96.9-303.8         | 0.70-1.20             | 72.5-159.5                | 12,183        | 7,476         |
|                       | 100-400          | 3.23             | 1,312                 | 190-295            | 96.9-303.8         | 0.70-1.20             | 72.5-159.5                | 12,529        | 7,749         |
|                       | 110-300          | 3.62             | 984                   | 262-367            | 180.5-493.1        | 1.00-1.50             | 72.5-159.5                | 11,887        | 7,385         |
|                       | 110-330          | 3.61             | 1,082                 | 253-358            | 154.1-462.3        | 0.80-1.40             | 72.5-159.5                | 12,516        | 7,606         |
|                       | <b>**110-350</b> | <b>3.61</b>      | <b>1,148</b>          | <b>246-348</b>     | <b>145.3-431.5</b> | <b>0.70-1.20</b>      | <b>72.5-159.5</b>         | <b>12,935</b> | <b>7,729</b>  |
| <b>E<sup>21</sup></b> | 100-430          | 3.19             | 1,411                 | 190-285            | 96.9-281.8         | 0.70-1.10             | 72.5-159.5                | 13,572        | 8,550         |
|                       | 100-450          | 3.18             | 1,476                 | 177-272            | 74.8-242.2         | 0.60-1.00             | 72.5-159.5                | 13,918        | 8,686         |
|                       | 110-350          | 3.61             | 1,148                 | 246-344            | 145.3-405.1        | 0.80-1.40             | 72.5-159.5                | 13,459        | 8,254         |
|                       | 110-380          | 3.58             | 1,247                 | 246-344            | 145.3-405.1        | 0.80-1.40             | 72.5-159.5                | 14,088        | 8,499         |
|                       | <b>**110-400</b> | <b>3.56</b>      | <b>1,312</b>          | <b>246-338</b>     | <b>145.3-405.1</b> | <b>0.80-1.40</b>      | <b>72.5-159.5</b>         | <b>14,508</b> | <b>8,699</b>  |
|                       | 110-420          | 3.54             | 1,378                 | 246-335            | 145.3-369.8        | 0.80-1.40             | 72.5-159.5                | 14,925        | 8,878         |
|                       | 120-300          | 3.89             | 984                   | 262-377            | 180.5-519.5        | 1.00-1.50             | 72.5-159.5                | 13,481        | 8,406         |
| <b>E<sup>31</sup></b> | 100-480          | 3.11             | 1,575                 | 177-272            | 74.8-242.2         | 0.60-1.00             | 72.5-159.5                | 14,656        | 9,301         |
|                       | 100-500          | 3.11             | 1,640                 | 177-272            | 74.8-242.2         | 0.60-1.00             | 72.5-159.5                | 15,002        | 9,425         |
|                       | 100-520          | 3.07             | 1,706                 | 177-262            | 74.8-228.9         | 0.60-1.00             | 72.5-159.5                | 15,349        | 9,680         |
|                       | <b>**110-450</b> | <b>3.46</b>      | <b>1,476</b>          | <b>240-328</b>     | <b>123.3-352.2</b> | <b>0.80-1.25</b>      | <b>72.5-159.5</b>         | <b>15,772</b> | <b>9,555</b>  |
|                       | 110-470          | 3.46             | 1,542                 | 240-325            | 123.3-352.2        | 0.80-1.25             | 72.5-159.5                | 16,193        | 9,698         |
|                       | 110-490          | 3.45             | 1,607                 | 240-318            | 123.3-343.4        | 0.70-1.20             | 72.5-159.5                | 16,612        | 9,890         |
|                       | 125-310          | 3.93             | 1,017                 | 262-377            | 180.5-519.5        | 1.00-1.50             | 72.5-159.5                | 14,731        | 9,222         |
| <b>**125-350</b>      | <b>3.93</b>      | <b>1,148</b>     | <b>262-374</b>        | <b>180.5-493.1</b> | <b>1.00-1.50</b>   | <b>72.5-159.5</b>     | <b>15,814</b>             | <b>9,592</b>  |               |
| <b>E<sup>41</sup></b> | 100-550          | 3.06             | 1,804                 | 177-262            | 74.8-228.9         | 0.60-1.00             | 72.5-159.5                | 17,167        | 11,228        |
|                       | 100-590          | 3.06             | 1,804                 | 177-256            | 74.8-220.1         | 0.60-0.90             | 72.5-159.5                | 17,860        | 11,570        |
|                       | 110-500          | 3.39             | 1,640                 | 190-282            | 96.9-303.8         | 0.70-1.20             | 72.5-159.5                | 18,120        | 11,497        |
|                       | 110-520          | 3.39             | 1,706                 | 217-285            | 123.3-303.8        | 0.70-1.20             | 72.5-159.5                | 18,539        | 11,649        |
|                       | 110-550          | 3.35             | 1,804                 | 217-285            | 123.3-303.8        | 0.70-1.10             | 72.5-159.5                | 19,167        | 12,026        |
|                       | 120-420          | 3.80             | 1,378                 | 246-358            | 145.3-453.5        | 0.80-1.40             | 72.5-159.5                | 18,115        | 11,122        |
|                       | <b>**120-450</b> | <b>3.80</b>      | <b>1,476</b>          | <b>246-348</b>     | <b>145.3-431.5</b> | <b>0.80-1.40</b>      | <b>72.5-159.5</b>         | <b>18,865</b> | <b>11,371</b> |
|                       | 125-370          | 4.02             | 1,214                 | 262-377            | 180.5-519.5        | 1.00-1.50             | 72.5-159.5                | 17,655        | 10,776        |
|                       | <b>**125-400</b> | <b>4.02</b>      | <b>1,312</b>          | <b>262-377</b>     | <b>180.5-519.5</b> | <b>1.00-1.50</b>      | <b>72.5-159.5</b>         | <b>18,466</b> | <b>11,030</b> |
|                       | 140-340          | 4.41             | 1,115                 | 262-412            | 180.5-546.0        | 1.00-1.50             | 72.5-159.5                | 19,522        | 11,689        |

\*\* - Most popular models sold.



# BAUER RAINSTAR E

## Models & Performance

| MODELS                | TYPE             | PE-PIPE (inches) | PE-PIPE LENGTH (feet) | STRIP WIDTH    | CONSUMPTION (GPM)  | NOZZLE SIZES (inches) | CONNECTION PRESSURE (PSI) | WEIGHT (lbs)  |               |
|-----------------------|------------------|------------------|-----------------------|----------------|--------------------|-----------------------|---------------------------|---------------|---------------|
|                       |                  |                  |                       |                |                    |                       |                           | WITH WATER    | LESS WATER    |
| <b>E<sup>51</sup></b> | 110-590          | 3.32             | 1,935                 | 190-272        | 96.9-286.2         | 0.70-1.10             | 72.5-159.5                | 19,802        | 12,240        |
|                       | 110-620          | 3.31             | 2,034                 | 190-262        | 96.9-228.9         | 0.70-1.00             | 72.5-159.5                | 20,430        | 12,562        |
|                       | <b>**110-650</b> | <b>3.27</b>      | <b>2,132</b>          | <b>190-262</b> | <b>96.9-228.9</b>  | <b>0.70-1.00</b>      | <b>72.5-159.5</b>         | <b>21,059</b> | <b>12,990</b> |
|                       | 120-530          | 3.72             | 1,739                 | 246-338        | 145.3-405.1        | 1.00-1.40             | 72.5-159.5                | 20,655        | 12,196        |
|                       | 120-550          | 3.67             | 1,804                 | 246-338        | 145.3-387.5        | 1.00-1.40             | 72.5-159.5                | 21,153        | 12,577        |
|                       | 120-570          | 3.65             | 1,870                 | 246-338        | 145.3-374.2        | 1.00-1.40             | 72.5-159.5                | 21,654        | 12,868        |
|                       | <b>**120-600</b> | <b>3.61</b>      | <b>1,968</b>          | <b>249-335</b> | <b>145.3-352.2</b> | <b>1.00-1.40</b>      | <b>72.5-159.5</b>         | <b>22,399</b> | <b>13,338</b> |
|                       | 125-450          | 3.99             | 1,476                 | 262-367        | 180.5-493.1        | 1.00-1.50             | 72.5-159.5                | 19,615        | 11,378        |
|                       | <b>**125-500</b> | <b>3.93</b>      | <b>1,640</b>          | <b>246-348</b> | <b>145.3-431.5</b> | <b>1.00-1.50</b>      | <b>72.5-159.5</b>         | <b>20,968</b> | <b>12,081</b> |
|                       | <b>**140-400</b> | <b>4.33</b>      | <b>1,312</b>          | <b>262-412</b> | <b>180.5-546.0</b> | <b>1.00-1.50</b>      | <b>72.5-159.5</b>         | <b>21,017</b> | <b>12,344</b> |

|                              |                  |             |              |                |                    |                  |                   |               |               |
|------------------------------|------------------|-------------|--------------|----------------|--------------------|------------------|-------------------|---------------|---------------|
| <b>E<sup>51</sup><br/>XL</b> | 110-670          | 3.27        | 2,198        | 213-302        | 110.1-242.2        | 0.70-1.00        | 72.5-159.5        | 23,362        | 15,099        |
|                              | 110-700          | 2.32        | 2,296        | 213-302        | 110.1-242.2        | 0.70-1.00        | 72.5-159.5        | 23,991        | 15,549        |
|                              | 120-630          | 3.62        | 2,067        | 246-322        | 145.3-317.0        | 0.80-1.25        | 72.5-159.5        | 25,033        | 15,510        |
|                              | <b>**120-650</b> | <b>3.62</b> | <b>2,132</b> | <b>246-322</b> | <b>145.3-317.0</b> | <b>0.80-1.25</b> | <b>72.5-159.5</b> | <b>25,532</b> | <b>15,706</b> |
|                              | 125-560          | 3.87        | 1,837        | 262-341        | 176.1-387.5        | 1.00-1.40        | 72.5-159.5        | 24,476        | 14,828        |
|                              | 120-580          | 3.84        | 1,903        | 262-341        | 176.1-387.5        | 1.00-1.40        | 72.5-159.5        | 25,018        | 15,174        |
|                              | 125-600          | 3.80        | 1,968        | 262-341        | 176.1-387.5        | 1.00-1.40        | 72.5-159.5        | 25,558        | 15,569        |
|                              | <b>**125-620</b> | <b>3.80</b> | <b>2,034</b> | <b>262-341</b> | <b>176.1-387.5</b> | <b>1.00-1.40</b> | <b>72.5-159.5</b> | <b>26,101</b> | <b>15,781</b> |
|                              | 140-430          | 4.39        | 1,410        | 262-374        | 176.1-484.3        | 1.00-1.50        | 72.5-159.5        | 23,918        | 14,407        |
|                              | 140-460          | 4.39        | 1,509        | 262-374        | 176.1-484.3        | 1.00-1.50        | 72.5-159.5        | 24,936        | 14,760        |

\*\* - Most popular models sold.



# BAUER RAINSTAR T



Bauer's Rainstar T Traveller offers the features and options of the Rainstar E but on a smaller scale. If you are looking for a rugged, durable, & energy efficient traveller to irrigate smaller acreage, without sacrificing performance and quality, the Rainstar T is the perfect match.



## Models & Performance

| MODELS     | TYPE             | PE-PIPE (inches) | PE-PIPE LENGTH (feet) | STRIP WIDTH    | CONSUMPTION (GPM) | NOZZLE SIZES (inches) | CONNECTION PRESSURE (PSI) | WEIGHT (lbs) |              |
|------------|------------------|------------------|-----------------------|----------------|-------------------|-----------------------|---------------------------|--------------|--------------|
|            |                  |                  |                       |                |                   |                       |                           | WITH WATER   | LESS WATER   |
| <b>T32</b> | 65-270           | 2.17             | 886                   | 174-223        | 61.6-154.1        | 0.50-0.85             | 65.2-159.5                | 4,542        | 3,102        |
|            | 65-320           | 2.17             | 1,050                 | 174-223        | 61.6-154.1        | 0.50-0.85             | 65.2-159.5                | 4,762        | 3,161        |
|            | 65-350           | 2.17             | 1,148                 | 174-220        | 61.6-136.5        | 0.50-0.80             | 65.2-159.5                | 5,128        | 3,261        |
|            | <b>**75-250</b>  | <b>2.50</b>      | <b>820</b>            | <b>174-249</b> | <b>61.6-215.7</b> | <b>0.50-1.00</b>      | <b>65.2-159.5</b>         | <b>5,002</b> | <b>3,219</b> |
|            | 75-280           | 2.50             | 918                   | 174-249        | 61.6-215.7        | 0.50-1.00             | 65.2-159.5                | 5,196        | 3,272        |
|            | 75-300           | 2.50             | 984                   | 174-246        | 61.6-193.7        | 0.50-0.90             | 65.2-159.5                | 5,487        | 3,351        |
|            | 75-330           | 2.50             | 1,083                 | 174-246        | 61.6-193.7        | 0.50-0.80             | 65.2-159.5                | 5,781        | 3,428        |
| 85-220     | 2.77             | 722              | 180-285               | 74.8-281.8     | 0.60-1.10         | 65.2-159.5            | 5,318                     | 3,391        |              |
| <b>T42</b> | 75-350           | 2.50             | 1,148                 | 174-246        | 61.6-171.7        | 0.50-0.85             | 65.2-159.5                | 6,131        | 3,638        |
|            | 85-270           | 2.77             | 886                   | 174-272        | 61.6-264.2        | 0.50-1.10             | 65.2-159.5                | 6,100        | 3,686        |
|            | 85-300           | 2.77             | 984                   | 174-272        | 61.6-264.2        | 0.50-1.10             | 65.2-159.5                | 6,475        | 3,792        |
|            | <b>**85-320</b>  | <b>2.77</b>      | <b>1,050</b>          | <b>174-272</b> | <b>61.6-242.2</b> | <b>0.50-1.00</b>      | <b>65.2-159.5</b>         | <b>6,726</b> | <b>3,862</b> |
|            | 90-260           | 2.95             | 853                   | 180-295        | 74.8-321.4        | 0.60-1.20             | 65.2-159.5                | 6,228        | 3,746        |
|            | 90-280           | 2.95             | 918                   | 180-289        | 74.8-312.6        | 0.60-1.20             | 65.2-159.5                | 6,510        | 3,827        |
| 90-300     | 2.95             | 984              | 180-282               | 74.8-303.8     | 0.60-1.20         | 65.2-159.5            | 6,931                     | 3,951        |              |
| <b>T51</b> | 75-400           | 2.50             | 1,313                 | 174-233        | 61.6-145.3        | 0.50-0.80             | 65.2-159.5                | 7,886        | 5,090        |
|            | 75-420           | 2.50             | 1,378                 | 174-233        | 61.6-145.3        | 0.50-0.80             | 65.2-159.5                | 8,082        | 5,179        |
|            | 85-350           | 2.77             | 1,148                 | 174-272        | 61.6-242.2        | 0.50-1.00             | 65.2-159.5                | 8,369        | 5,126        |
|            | 85-370           | 2.77             | 1,214                 | 174-262        | 61.60228.9        | 0.50-1.00             | 65.2-159.5                | 8,620        | 5,243        |
|            | 90-330           | 3.04             | 1,083                 | 180-282        | 74.8-303.8        | 0.60-1.20             | 65.2-159.5                | 8,618        | 5,146        |
|            | 90-350           | 3.02             | 1,148                 | 180-285        | 74.8-281.8        | 0.60-1.10             | 65.2-159.5                | 8,900        | 5,267        |
| <b>T61</b> | 85-400           | 2.77             | 1,313                 | 174-249        | 61.60215.7        | 0.50-1.00             | 65.2-159.5                | 8,907        | 5,386        |
|            | 85-450           | 2.77             | 1,476                 | 174-249        | 61.6-193.7        | 0.50-0.90             | 65.2-159.5                | 9,533        | 5,714        |
|            | 90-370           | 2.95             | 1,214                 | 180-272        | 74.8-264.2        | 0.60-1.10             | 65.2-159.5                | 9,092        | 5,399        |
|            | 90-390           | 2.93             | 1,280                 | 180-272        | 74.8-242.2        | 0.60-1.00             | 65.2-159.5                | 9,372        | 5,538        |
|            | 90-420           | 2.89             | 1,378                 | 180-272        | 74.8-242.2        | 0.60-1.00             | 65.2-159.5                | 9,793        | 5,765        |
|            | 90-450           | 2.86             | 1,476                 | 180-262        | 74.8-228.9        | 0.60-1.00             | 65.2-159.5                | 10,214       | 5,983        |
|            | <b>**100-300</b> | <b>3.27</b>      | <b>984</b>            | <b>180-295</b> | <b>74.8-321.4</b> | <b>0.60-1.20</b>      | <b>65.2-159.5</b>         | <b>9,096</b> | <b>5,428</b> |
|            | 100-330          | 3.27             | 1,083                 | 180-295        | 74.8-321.4        | 0.60-1.20             | 65.2-159.5                | 9,617        | 5,580        |
| 100-350    | 3.27             | 1,148            | 180-282               | 74.8-303.8     | 0.60-1.20         | 65.2-159.5            | 9,963                     | 5,681        |              |

\*\* - Most popular models sold.

Call us today for a Complete Performance Table and for other available models.



# MOBILE IRRIGATION SYSTEMS

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Monitoring of Rainstar operation Optimize your irrigation management  
 Irrigation control via mobile devices Team management  
 Automatic reports Automatic Error messages



A2

## BAUER RAINSTAR A

Bauer has compact solutions in three different sizes for irrigating:

- Sports Fields
- Parkland
- Schools
- Golf Courses
- Nurseries
- Cemeteries



A3

### WITH IRRIGATION GUN CART PERFORMANCE

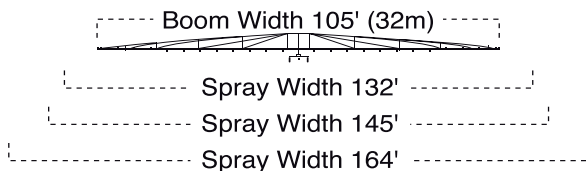
| MODELS               | TYPE            | PE-PIPE (inches) | PE-PIPE LENGTH (feet) | STRIP WIDTH    | CONSUMPTION (GPM) | NOZZLE SIZES (inches) | CONNECTION PRESSURE (PSI) | WEIGHT (lbs) |              |
|----------------------|-----------------|------------------|-----------------------|----------------|-------------------|-----------------------|---------------------------|--------------|--------------|
|                      |                 |                  |                       |                |                   |                       |                           | WITH WATER   | LESS WATER   |
| <b>A<sup>2</sup></b> | 50-135          | 1.63             | 442                   | 92-177         | 13.2-57.2         | 0.30-0.55             | 45-115                    | 1,160        | 752          |
|                      | <b>**55-120</b> | <b>1.77</b>      | <b>393</b>            | <b>98-190</b>  | <b>17.6-70.4</b>  | <b>0.30-0.60</b>      | <b>45-115</b>             | <b>1,204</b> | <b>774</b>   |
|                      | 58-115          | 1.89             | 377                   | 105-203        | 22.0-88.1         | 0.35-0.60             | 45-115                    | 1,252        | 778          |
| <b>A<sup>3</sup></b> | 55-170          | 2.02             | 557                   | 125-187        | 33.0-79.3         | 0.30-0.60             | 55-115                    | 1,746        | 1,135        |
|                      | <b>**63-125</b> | <b>2.02</b>      | <b>410</b>            | <b>125-203</b> | <b>33.0-88.1</b>  | <b>0.30-0.60</b>      | <b>55-115</b>             | <b>1,715</b> | <b>1,129</b> |
|                      | 63-150          | 1.77             | 492                   | 125-203        | 33.0-88.1         | 0.30-0.60             | 55-115                    | 1,885        | 1,184        |

\*\* - Most popular models sold.

## AS-32 & AS-50 SPRAY BOOMS



AS-32 Spray & Structure Widths

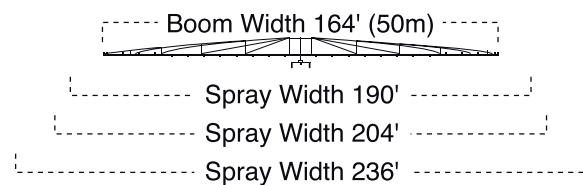


The AS - 32 Irrigation Boom is designed to work with Bauer's Rainstar T Travellers. The AS-32 has a width of 105' with sprinkler packages available for spray widths up to 164'.

The AS-50 Boom works with Bauer Rainstar E Series Travellers. The Boom has a structural width of 164' and a maximum spray width of 236'.



AS-50 Spray & Structure Widths



## BRIGGS BOOM

Briggs Boom irrigators are an established feature for the farming landscape. Efficient, tough, reliable and versatile, the modern Briggs range has been tried and tested by farmers and growers around the world.

### Benefits:

- **Uniformity:** Closely spaced nozzles + low trajectory = 90% uniformity
- **Soil Benefit:** Controlling droplet size reduces risk of soil capping or "slumping", compared with a raingun
- **Reduced Droplet Size:** Nelson pressure regulated sprayjets allow the optimum droplet size to be selected, specific to each type of crop
- **Less Energy Needed:** Booms operate at pressures ranging from half the pressure recommended for rainguns. Less pressure needed all the way back to the pump, reducing input power costs.



### BRIGGS BOOM TECHNICAL DATA R64/2

| R64/2                      | SPECIFICATIONS |
|----------------------------|----------------|
| Boom Length                | 210'           |
| Lane Spacing               | 210'-295'      |
| Band Width                 | 33'-82'        |
| Flow                       | 80-300 GPM     |
| Operating Pressure         | 15-60 PSI      |
| Quantity of Outlets        | 22             |
| Folded L x W               | 24' 7" x 12'   |
| Wheelbase                  | 12' 6"         |
| Track Width                | 60" - 86"      |
| Height to Nozzle           | 60"            |
| Height to Top of Structure | 9' 6"          |
| Turning Cycle              | 23' 6"         |



## TRAVELLER ACCESSORIES



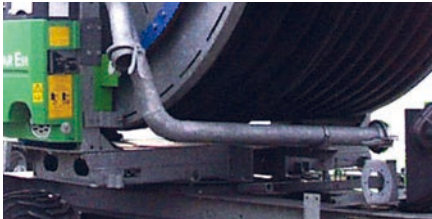
### CLOSE RANGE SPRINKLERS

| PART #     | DESCRIPTION                       |
|------------|-----------------------------------|
| BD 65-CRSA | #65 Close Range Sprinkler Package |
| BD 85-CRSA | #85 Close Range Sprinkler Package |

### DELIVERY HOSE, BAUER BY MALE WADE RAIN



| PART #   | DESCRIPTION                               |
|----------|---|
| GA DH-2  | 2" x 25' Delivery Hose for A2             |
| GA DH-33 | 3" x 25' Delivery Hose with 3" Connectors |
| GA DH-34 | 3" x 25' Delivery hose with 4" Connectors |
| GA DH-35 | 3" x 25' Delivery Hose with 5" Connectors |
| GA DH-44 | 4" x 25' Delivery Hose with 4" Connectors |
| GA DH-45 | 4" x 25' Delivery Hose with 5" Connectors |
| GA DH-46 | 4" x 25' Delivery Hose with 6" Connectors |
| GA DH-55 | 5" x 25' Delivery Hose with 5" Connectors |



### UNIT CONNECTION

| PART #        | DESCRIPTION                  |
|---------------|------------------------------|
| BD 834-1110VB | Unit Connect. E11, E21 & E31 |
| BD 834-1120VB | Unit Connect, E41            |
| BD 834-1130VB | Unit Connect, E51            |

### BLOW OUT ACCESSORIES



| PART #       | DESCRIPTION                               |
|--------------|---|
| BD 833-2940  | Blow Out Compressor                       |
| GA TRC-PTO   | Trolley for Blow Out Compressor           |
| GA BBA 42525 | Blow Out Adapter, 4 1/4" with 1/4" Outlet |
| GA BBA425100 | Blow Out Adapter, 4 1/4" with 1" Outlet   |

### SCREENS & PULL-OUT BARS



| PART #       | DESCRIPTION                        |
|--------------|------------------------------------|
| GA SCREEN-B3 | Inline Screen for 3" Delivery Hose |
| GA SCREEN-B  | Inline Screen for 4" Delivery Hose |
| GA SCREEN-G  | Inline Screen for Ginseng (4")     |
| BD P062-2303 | Bauer P.T.O. Shaft                 |
| GA TH2       | Pull Out Bar                       |
| GA TH205     | Off Set Pull Out Bar               |

## **KIFCO** Kifco Water Reel Irrigation Systems

### Features:

- Require far less labour than conventional reel systems
- Often can be operated from a municipal water supply without the need for a pump
- Optional booster pump for low pressure situations.
- Compact and highly mobile
- Economical

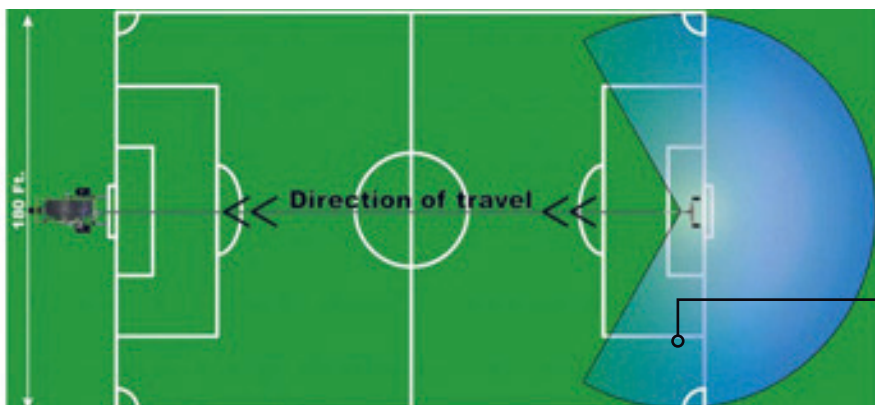


Portable • Reliable • Simple • Automatic • Affordable

### Machine Selection

Consider these questions when thinking about machine selection:

- Is your application turf or agriculture?
- What is the size of the area to be irrigated, length & width?
- What is the irrigation cycle? (The frequency at which water is to be applied)
- How much water do you want to apply?
- What is your water source? Well, Municipal or other?
- What is your pressure (psi) and flow (gallons per minute, gpm)?
- What is your budget? To minimize labour and irrigation time, select the largest machine that fits your budget.



Kifco Water-Reels® are compact and very easy to maneuver, they operate unattended and are equipped with a uniquely powered automatic shut down system which operates at the completion of each run.



All Kifco Water-Reels® offer adjustable speed control to regulate run time and application depth and feature automatic retraction and sprinkler shutdown.

Kifco Water-Reels® will automatically stop when the sprinkler cart arrives at the machine.

The operator can select the speed of rewind which determines the amount of water applied to the site.

## Kifco Water-Reel Irrigation Systems

| MODEL   | TUBE INNER DIAMETER/ LENGTH | IRRIGATED WIDTH | IRRIGATED LENGTH | IRRIGATED AREA (ACRES) | DRIVE SYSTEM | GPM RANGE | INLET PSI RANGE | BOOSTER PUMP OPTIONS |
|---------|-----------------------------|-----------------|------------------|------------------------|--------------|-----------|-----------------|----------------------|
| B110    | 1.1" x 280'                 | 78-110'         | 319-335'         | 0.6-0.9                | Bellows      | 10-26     | 51-100          | 1 HP Electric        |
| B140    | 1.4" x 350'                 | 120-160'        | 410-440'         | 1.2-2.0                | Bellows      | 25-60     | 50-117          | 5HP/9HP              |
| T180    | 1.8" x 380'                 | 125-180'        | 449-478'         | 1.1-2.5                | Turbine*     | 25-102    | 50-150          | 5HP/9HP              |
| T200S   | 2.0" x 320'                 | 148-218'        | 394-435'         | 1.1-2.4                | Turbine*     | 25-143    | 50-150          | 5HP/9HP              |
| E200SST | 2.0" x 320'                 | 121-198'        | 380-419'         | N/A                    | Engine       | 52-168    | 50-150          | 5HP/9HP              |
| T200L   | 2.0" x 580'                 | 138-191'        | 649-676'         | 2.3-3.2                | Turbine*     | 47-115    | 55-140          | 5HP/9HP              |
| T200LSC | 2.0" x 580'                 | 138-191'        | 649-676'         | 2.3-3.2                | Turbine      | 47-115    | N/A             | 23 HP                |
| T210    | 2.1" x 400'                 | 154-218'        | 469-511'         | 1.6-2.8                | Turbine*     | 47-140    | 55-140          | 5HP/9HP              |

\* These models are also available in engine drive.

### Machine Model Numbers

Machine model numbers provide information about the type of machine, B-bellows, T-turbine, E-engine, the inside diameter (I.D.) of the tube and the length of the tube in feet. For example: a T-200/320 is a turbine machine with an inside tube diameter of 2" and a tube length of 320', an E40A/1320 is an engine driven machine with an inside tube diameter of 4" and a tube length of 1320'.



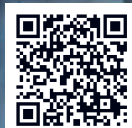


# Irrigation Technology for the Future



## NEW AUTOMATIC ARC TIMER FOR TRAVELING BIG GUN® SPRINKLERS

- Automatically change the arc of throw: starting position 180°, second position changes to <180°-330° at set time.
- 100% Retrofittable! Can be fit to any SR150 series Big Gun® sprinkler.
- Simple and robust construction for easy use and durability.



**BIG GUN®  
SPRINKLERS**

A workhorse for hose reel traveler irrigation, as well as solid set. Try the economical, easy to change plastic nozzle.



**PIVOT  
PRODUCTS**

Find a full range of products from Pivot Point to End Gun. Radius is king with the R3030 Rotator®.



**SPINNER & ROTATOR  
TECHNOLOGY**

Choose from a number of solutions for tree, vine and field crops. From the S7 to the R2000WF uniformity reigns.



**CONTROL  
VALVES**

Proper air and water control are vital to any irrigation system. Explore the 1000 Series, 800 Series & ACV200.

## BIG GUN SPRINKLERS

### NELSON ARC TIMER



The **Automatic Arc Timer** for the SR150 Big Gun sprinkler is a simple way to increase the capability of an existing Nelson Big Gun on a hose reel traveller.

**Features:**

- Automatically change the arc of throw
- Starting position of 180°, second position changes to <180°-330° at set time
- 100% retrofittable; can be fit to any SR150 Series Big Gun sprinkler
- Simple and robust construction for easy use and durability

### BIG GUNS

| PART #    | DESCRIPTION  |
|-----------|--|
| AS SR74   | Part Circle, 75 Series Gun, Slow Return                    |
| AS F100   | Full Circle, 100 Series Gun                                |
| AS SR100  | Part Circle, 100 Series Gun, Slow Return                   |
| AS F150   | Full Circle, 150 Series Gun                                |
| AS SR150  | Part Circle, 150 Series Gun, Slow Return                   |
| AS SRA150 | Part Circle, 150 Series Gun, Slow Return & Adj. Trajectory |
| AS SR200  | Parc Circle, 200 Series Gun, Slow Return                   |
| A 13296   | Arc Adjustment Accessory for Big Gun                       |

### RING NOZZLES

| PART #      | GUN SERIES | DESCRIPTION                  |
|-------------|------------|------------------------------|
| AS 100RASSY | 100        | 7 Rings, Sizes 0.71" - 0.93" |
| AS 150RASSY | 150        | 7 Rings, Sizes 0.86" - 1.41" |
| AS 200RASSY | 200        | 7 Rings, Sizes 1.29" - 1.93" |

Each Ring Nozzle Assembly includes a set of 7 rings, providing a wide range of flow rates and coverage.

Ring Nozzles provide a gentler rain pattern but have a smaller wetted diameter.



### TAPER BORE NOZZLES

| PART #       | GUN | SIZE  | PART #  | GUN | SIZE  |
|--------------|-----|-------|---------|-----|-------|
| AS 10208-045 | 75  | 0.45" | AS 6280 | 150 | 0.90" |
| AS 10208-050 | 75  | 0.50" | AS 6281 | 150 | 1.00" |
| AS 10208-060 | 75  | 0.60" | AS 6282 | 150 | 1.10" |
| AS 10208-065 | 75  | 0.65" | AS 6283 | 150 | 1.20" |
|              |     |       | AS6283  | 150 | 1.30" |
| AS 8437      | 100 | 0.60" | AS 6033 | 200 | 1.05" |
| AS 8439      | 100 | 0.70" | AS 6034 | 200 | 1.10" |
| AS 84336     | 100 | 0.75" | AS 6035 | 200 | 1.20" |
| AS 8440      | 100 | 0.80" | AS 6036 | 200 | 1.30" |
| AS 8442      | 100 | 0.90" | AS 6037 | 200 | 1.40" |
| AS 8243      | 100 | 1.00" | AS 6038 | 200 | 1.50" |
|              |     |       | AS 6039 | 200 | 1.60" |
|              |     |       | AS 6040 | 200 | 1.75" |

Taper Bore Nozzles are ideally suited to give the maximum throw distance.



## Tapper Bore Nozzle Performance

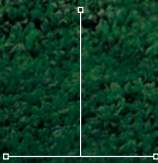
| MODELS             | PSI | GPM Diameter | GPM Diameter | GPM Diameter | GPM Diameter | GPM Diameter | GPM Diameter | GPM Diameter | GPM Diameter | GPM Diameter | GPM Diameter | GPM Diameter |
|--------------------|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>NOZZLE SIZE</b> |     | <b>0.40"</b> | <b>0.45"</b> | <b>0.50"</b> | <b>0.55"</b> | <b>0.60"</b> | <b>0.65"</b> | <b>0.70"</b> | <b>0.75"</b> | <b>0.80"</b> |              |              |
| <b>75</b>          | 40  | 27 149'      | 35 160'      | 43 171'      | 52 180'      | 63 190'      | 74 198'      | 87 204'      | 98 213'      | 112 221'     |              |              |
|                    | 50  | 30 161'      | 39 174'      | 48 186'      | 59 195'      | 70 203'      | 83 212'      | 95 220'      | 109 230'     | 123 237'     |              |              |
|                    | 60  | 33 169'      | 42 184'      | 53 198'      | 64 208'      | 77 220'      | 91 228'      | 104 237'     | 120 245'     | 136 254'     |              |              |
|                    | 70  | 36 175'      | 45 194'      | 57 210'      | 69 221'      | 83 232'      | 98 243'      | 113 254'     | 129 260'     | 147 270'     |              |              |
|                    | 80  | 39 182'      | 49 207'      | 61 222'      | 74 234'      | 89 244'      | 105 256'     | 121 266'     | 138 274'     | 158 283'     |              |              |
| <b>NOZZLE SIZE</b> |     | <b>0.50"</b> | <b>0.55"</b> | <b>0.60"</b> | <b>0.65"</b> | <b>0.70"</b> | <b>0.75"</b> | <b>0.80"</b> | <b>0.85"</b> | <b>0.90"</b> | <b>1.00"</b> |              |
| <b>100</b>         | 50  | 50 205'      | 64 215'      | 74 225'      | 87 235'      | 100 245'     | 115 256'     | 150 273'     | 130 265'     | 165 280'     | 204 300'     |              |
|                    | 60  | 55 205'      | 69 227'      | 81 240'      | 96 250'      | 110 260'     | 126 270'     | 164 288'     | 143 280'     | 182 295'     | 224 316'     |              |
|                    | 70  | 60 225'      | 75 238'      | 88 250'      | 103 263'     | 120 275'     | 136 283'     | 177 302'     | 155 295'     | 197 310'     | 243 338'     |              |
|                    | 80  | 64 235'      | 79 248'      | 94 260'      | 110 273'     | 128 285'     | 146 295'     | 189 314'     | 165 305'     | 210 325'     | 258 254'     |              |
|                    | 90  | 68 245'      | 83 258'      | 100 270'     | 117 283'     | 135 295'     | 155 306'     | 201 326'     | 175 315'     | 223 335'     | 274 362'     |              |
|                    | 100 | 72 255'      | 87 268'      | 106 280'     | 123 293'     | 143 305'     | 163 316'     | 212 336'     | 185 325'     | 235 345'     | 289 372'     |              |
| <b>NOZZLE SIZE</b> |     | <b>0.70"</b> | <b>0.80"</b> | <b>0.90"</b> | <b>1.00"</b> | <b>1.10"</b> | <b>1.20"</b> | <b>1.30"</b> |              |              |              |              |
| <b>150</b>         | 60  | 110 265'     | 143 285'     | 183 305'     | 225 325'     | 275 345'     | 330 365'     | 385 380'     |              |              |              |              |
|                    | 70  | 120 280'     | 155 300'     | 197 320'     | 245 340'     | 295 360'     | 355 380'     | 415 395'     |              |              |              |              |
|                    | 80  | 128 290'     | 165 310'     | 210 335'     | 260 355'     | 315 375'     | 380 395'     | 445 410'     |              |              |              |              |
|                    | 90  | 135 300'     | 175 320'     | 223 345'     | 275 365'     | 335 390'     | 405 410'     | 475 425'     |              |              |              |              |
|                    | 100 | 143 310'     | 185 330'     | 235 355'     | 290 375'     | 355 400'     | 425 420'     | 500 440'     |              |              |              |              |
|                    | 110 | 150 320'     | 195 340'     | 247 365'     | 305 385'     | 370 410'     | 445 430'     | 525 450'     |              |              |              |              |
| <b>NOZZLE SIZE</b> |     | <b>1.05"</b> | <b>1.10"</b> | <b>1.20"</b> | <b>1.30"</b> | <b>1.40"</b> | <b>1.50"</b> | <b>1.60"</b> | <b>1.75"</b> | <b>1.90"</b> |              |              |
| <b>200</b>         | 70  | 270 360'     | 310 380'     | 355 395'     | 415 410'     | 480 430'     | 555 450'     | 630 465'     | 755 495'     | 890 515'     |              |              |
|                    | 80  | 290' 375'    | 330 395'     | 380 410'     | 445 430'     | 515 450'     | 590 470'     | 675 485'     | 805 515'     | 950 535'     |              |              |
|                    | 90  | 310 390'     | 350 410'     | 405 425'     | 475 445'     | 545 465'     | 625 485'     | 715 505'     | 855 535'     | 1,005 555'   |              |              |
|                    | 100 | 325 400'     | 370 420'     | 425 440'     | 500 460'     | 575 480'     | 660 500'     | 755 520'     | 900 550'     | 1,060 575'   |              |              |
|                    | 110 | 340 410'     | 390 430'     | 445 450'     | 525 470'     | 605 495'     | 695 515'     | 790 535'     | 945 565'     | 1,110 590'   |              |              |
|                    | 120 | 355 420'     | 450 440'     | 465 460'     | 545 480'     | 630 505'     | 725 530'     | 825 550'     | 985 580'     | 1,160 605'   |              |              |

## Ring Nozzle Performance

| MODELS             | PSI | GPM Diameter | GPM Diameter | GPM Diameter | GPM Diameter | GPM Diameter | GPM Diameter | GPM Diameter |
|--------------------|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>NOZZLE SIZE</b> |     | <b>0.7"</b>  | <b>0.77"</b> | <b>0.81"</b> | <b>0.86"</b> | <b>0.89"</b> | <b>0.93"</b> | <b>0.96"</b> |
| <b>100</b>         | 50  | 74....220'   | 88 225'      | 100 230'     | 115 240'     | 129 250'     | 150 255'     | 167 260'     |
|                    | 60  | 81 235'      | 96 240'      | 110 245'     | 125 260'     | 141 270'     | 164 275'     | 183 280'     |
|                    | 70  | 88 245'      | 104 250'     | 118 260'     | 135 275'     | 152 290'     | 177 295'     | 198 300'     |
|                    | 80  | 94 255'      | 111 265'     | 127 275'     | 145 285'     | 163 300'     | 189 305'     | 211 315'     |
|                    | 90  | 99 265'      | 117 275'     | 134 285'     | 154 295'     | 173 310'     | 201 315'     | 224 325'     |
|                    | 100 | 105 270'     | 124 280'     | 142 295'     | 162 305'     | 182 320'     | 212 325'     | 236 335'     |
|                    | 110 | 110 275'     | 130 290'     | 149 305'     | 170 315'     | 191 325'     | 222 335'     | 248 345'     |
| <b>NOZZLE SIZE</b> |     | <b>0.86"</b> | <b>0.97"</b> | <b>1.08"</b> | <b>1.18"</b> | <b>1.26"</b> | <b>1.34"</b> | <b>1.41"</b> |
| <b>150</b>         | 60  | 110 260'     | 143 280'     | 182 300'     | 225 315'     | 275 335'     | 330....350'  | 385 365'     |
|                    | 70  | 120 270'     | 155 290'     | 197 310'     | 245 330'     | 295 350'     | 355 365'     | 415 380'     |
|                    | 80  | 128 280'     | 165 300'     | 210 320'     | 260 340'     | 315 360'     | 380 380'     | 445 395'     |
|                    | 90  | 135 290'     | 175 310'     | 223 330'     | 275 350'     | 335 370'     | 405 390'     | 475 405'     |
|                    | 100 | 143 300'     | 185 320'     | 235 340'     | 290 360'     | 355 380'     | 425 400'     | 500 415'     |
|                    | 110 | 150 310'     | 195 330'     | 247 350'     | 305 370'     | 370 390'     | 445 410'     | 525 425'     |
| <b>NOZZLE SIZE</b> |     | <b>1.29"</b> | <b>1.46"</b> | <b>1.56"</b> | <b>1.66"</b> | <b>1.74"</b> | <b>1.83"</b> | <b>1.93"</b> |
| <b>200</b>         | 60  | 250 340'     | 330 370'     | 385 390'     | 445 410'     | 515 425'     | 585 440'     | 695 455'     |
|                    | 70  | 270 355'     | 355 385'     | 415 405'     | 480 425'     | 555 440'     | 630 455'     | 755 475'     |
|                    | 80  | 290 370'     | 380 400'     | 445 420'     | 515 440'     | 590 455'     | 675 470'     | 805 490'     |
|                    | 90  | 310 380'     | 405 415'     | 475 435'     | 545 455'     | 625 470'     | 715 485'     | 855 505'     |
|                    | 100 | 325 390'     | 425 425'     | 500 445'     | 575 465'     | 660 480'     | 755 500'     | 900 520'     |
|                    | 110 | 340 400'     | 445 435'     | 525 455'     | 605 475'     | 695 490'     | 790 510'     | 945 535'     |
|                    | 120 | 355 410'     | 465 445'     | 545 465'     | 630 485'     | 725 500'     | 825 520'     | 985 545'     |

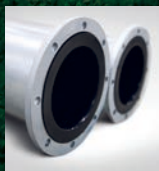
# WHERE WHAT IF BECOMES WHAT IS.

WHAT IF a pivot was as easy to use as your smartphone?



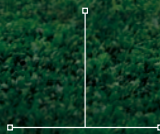
Zimmatic™ advanced control panels

WHAT IF water quality issues were no longer an issue?



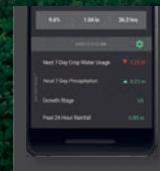
Zimmatic poly-lined pipe

WHAT IF irrigation monitoring was accessible to every grower?



FieldNET Pivot Watch™

WHAT IF a monitor and control platform could help you see into the future?



FieldNET with WaterTrend™SM

WHAT IF irrigation recommendations were generated daily, automatically, with no extra equipment?



FieldNET Advisor™

For more than 50 years, Lindsay has turned growers' "what ifs" into "what is" using customer-first innovation to continuously make irrigation more efficient and more effective.

CONTACT YOUR LOCAL ZIMMATIC DEALER TO LEARN MORE ABOUT OUR SOLUTIONS.

**ZIMMATIC**  
BY LINDSAY

**FIELDNET**  
BY LINDSAY

[zimmatic.com](http://zimmatic.com)

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**LINDSAY**

## FIELDNET

### REMOTE PRECISION IRRIGATION MANAGEMENT TECHNOLOGY

#### WHAT IS FIELDNET?



##### PEACE OF MIND

Monitor, control, schedule, analyze & optimize your irrigation systems from your computer or mobile device. Your operation is always at your fingertips with the FieldNET platform.

##### SEAMLESS INTEGRATION

FieldNET technology integrates seamlessly with every component of your irrigation equipment, no matter what brand. That includes centre pivots, pumps and flow meters.

##### ENHANCED IRRIGATION

Track data from your field, create custom reports and get recommendations with a user-friendly interface to help make more sustainable and profitable decisions.

##### COMPLETELY CUSTOMIZABLE

FieldNET products & services are designed to fit every grower's needs. From remote monitoring to remote control, we have a complete solution for you.

## PIVOTS & LATERALS



### ZIMMATIC PIVOT MODELS

|                     | ZIMMATIC 9500P   | ZIMMATIC 8500P   | ZIMMATIC 7500P  |
|---------------------|--|--|---|
| <b>KEY BENEFITS</b> | Durable, rugged & longest-running pivot  | High-strength, value-drive pivot   | Cost-effective & compact pivot for small field applications   |
| <b>PIPE</b>         | 11-gauge pipeline with 10", 8 3/4", 8" 6 3/4", 5 3/4" diameter options   | 12-gauge pipeline with 6 3/4" diameter   | 11-gauge pipeline with 4 1/2" diameter  |
| <b>DRIVELINE</b>    | Zimmatic Centre Drive with AT Gearbox  | Zimmatic Centre Drive with AT Gearbox  | Zimmatic Centre Drive with AT Gearbox   |
| <b>FEATURES</b>     | <ul style="list-style-type: none"> <li>Full Flow Collector Ring</li> <li>Flexible Uni-Knuckle Span Connector</li> <li>Exclusive Split Coupler</li> <li>Formed Outlets</li> <li>Control Panels</li> <li>GPS Option</li> </ul> | <ul style="list-style-type: none"> <li>Full Flow Collector Ring</li> <li>Flexible Uni-Knuckle Span Connector</li> <li>Exclusive Split Coupler</li> <li>Formed Outlets</li> <li>Control Panels</li> <li>GPS Option</li> </ul> | <ul style="list-style-type: none"> <li>Full Flow Collector Ring</li> <li>Flexible Uni-Knuckle Span Connector</li> <li>AT Gearbox, Control Panels</li> <li>GPS Option</li> </ul> |
| <b>CLEARANCE</b>    | Low, Standard, Medium, High & Super-High   | Low, Standard, Medium & High   | Standard  |



Where the rubber meets the field, we can help you choose between four tire sizes for the option that best suits your soil and crop.



The three wheel mobile pivot is ideal for marshy areas and problem soils. Three wheels increase tire life, reduces drive train wear and irrigates acres currently left idle. A conversion kits available.



NTrax airless wheel assembly will never go flat, keeping wheel ruts to a minimum. A tension rubber belt with a steel core designed with a special tread pattern, provides superior traction & minimal soil disturbance.

## OPTIONS & CONTROLS

**ZIMMATIC™**  
 BY LINDSAY



### 712C

*Top-of-the-line and most advanced Zimmatic control panel.*

- Includes everything from the 700C control panel
- Industry-leading intuitive 12" interactive touchscreen with user-friendly interface
- FieldNet-ready for detailed status and full control in and out of the field
- Works with FieldNET Advisor for enhanced control and decision making
- Compatible with soft and hard barriers



### 700C

*Discover industry-leading technology with unparalleled ease of use.*

- Includes everything from the 500C control panel
- FieldNET-ready with GPS positioning to remotely automate stops, provide advanced end gun control, create precision irrigation plans and more
- Works with FieldNET Advisor for enhanced control and decision making
- Compatible with soft and hard barriers



### 500C

*Introducing the next-generation standard panel, where intuitive meets state of the art.*

- Ultra-simple interface
- FieldNET-ready with basic run control and easy pump start
- Built-in features like pressure shutdown alert, pressure restart and much more
- Works with FieldNET Advisor for advanced irrigation scheduling
- Over-the-air serviceability for enhanced software, firmware and features updates
- Compatible with hard barriers only



### VISION for Laterals

*Ideally suited for superior control over the Zimmatic 9500L lateral system*

- 15 times faster to program than competitors with our configuration wizard
- Easy, accurate programming
- Custom application plans
- GPS positioning
- Multilingual and metric capabilities
- Available with FieldNET on board



## PIVOT SPRINKLERS

### Components for D3000 Sprayhead, S3000 Spinner & R3000 Rotator



| PART #       | DESCRIPTION                        |
|--------------|------------------------------------|
| AS P9410     | 3/4" Adapter for 3000 Series       |
| AS 9572-004  | Lo-Flow Pressure Regulator, 20 PSI |
| AS 9572-005  | Lo-Flow Pressure Regulator, 25 PSI |
| AS 9572-006  | Lo-Flow Pressure Regulator, 30 PSI |
| AS P9412     | Body for Rotator or Spinner        |
| AS P9539     | Cap for Rotator                    |
| AS P9540     | Cap for Spinner                    |
| AS P9926-001 | 190° Spinner Stream Deflector      |
| AS P9428     | Body for Sprayhead                 |
| AS P9429     | Cap for Sprayhead                  |
| AS P9894-001 | 170° Sprayhead Blue Deflector      |



### R3000 ROTATOR PLATES

| PART #    | COLOUR | STREAM | TRAJECTORY       | MOUNT    | NOZZLE RANGE |
|-----------|--------|--------|------------------|----------|--------------|
| AS P8817  | Blue   | 4      | 8°               | Upright  | #14 - #50    |
| AS P8839  | Red    | 6      | 12°              | Inverted | #14 - #50    |
| ASP8844   | Green  | 4      | 8°               | Inverted | #14 - #50    |
| AS P10681 | Brown  | 10     | Multi-trajectory | Inverted | #14 - #50    |

### D3000 SPRAYHEAD PLATES



| PART #   | COLOUR | GROOVE | TRAJECTORY | APPLICATION            | WIND RESISTANCE | GENTLENESS OF SPRAY |
|----------|--------|--------|------------|------------------------|-----------------|---------------------|
| AS P9543 | Green  | Fine   | Concave    | Germination/Irrigation | Good            | Better              |
| AS P9631 | Yellow | Fine   | Flat       | Irrigation             | Better          | Better              |
| AS P9550 | Purple | Fine   | Convex     | Irrigation             | Better          | Good                |
| AS P9493 | Blue   | Medium | Concave    | Irrigation             | Better          | Good                |
| AS P9541 | Black  | Medium | Flat       | Irrigation             | Best            | Good                |

# PIVOT SPRINKLERS

## 3TN & 3NV NOZZLE PERFORMANCE

| NUMBER        | #12  | #13          | #14  | #15              | #16      | #17              | #18  | #19               | #20       | #21                 | #22    |
|---------------|------|--------------|------|------------------|----------|------------------|------|-------------------|-----------|---------------------|--------|
| COLOUR STRIPE | GOLD | GOLD<br>LIME | LIME | LIME<br>LAVENDER | LAVENDER | LAVENDER<br>GREY | GREY | GREY<br>TURQUOISE | TURQUOISE | TURQUOISE<br>YELLOW | YELLOW |
| PSI           | GPM  | GPM          | GPM  | GPM              | GPM      | GPM              | GPM  | GPM               | GPM       | GPM                 | GPM    |
| 6             | 0.61 | 0.71         | 0.82 | 0.95             | 1.08     | 1.22             | 1.36 | 1.53              | 1.70      | 1.84                | 2.04   |
| 10            | 0.79 | 0.92         | 1.06 | 1.23             | 1.40     | 1.58             | 1.75 | 1.97              | 2.19      | 2.38                | 2.64   |
| 15            | 0.96 | 1.10         | 1.29 | 1.51             | 1.71     | 1.93             | 2.14 | 2.41              | 2.69      | 2.91                | 3.23   |
| 20            | 1.11 | 1.30         | 1.49 | 1.74             | 1.98     | 2.23             | 2.48 | 2.79              | 3.10      | 3.36                | 3.73   |
| 25            | 1.24 | 1.46         | 1.67 | 1.95             | 2.21     | 2.50             | 2.77 | 3.12              | 3.47      | 3.76                | 4.17   |
| 30            | 1.36 | 1.59         | 1.83 | 2.14             | 2.42     | 2.74             | 3.03 | 3.41              | 3.80      | 4.12                | 4.56   |
| 40            | 1.57 | 1.84         | 2.11 | 2.47             | 2.80     | 3.16             | 3.50 | 3.94              | 4.39      | 4.76                | 5.27   |
| 50            | 1.76 | 2.06         | 2.36 | 2.76             | 3.13     | 3.53             | 3.91 | 4.41              | 4.90      | 5.32                | 5.89   |

| NUMBER        | #23    | #24  | #25          | #26   | #27           | #28  | #29               | #30        | #31                | #32    | #33                |
|---------------|--------|------|--------------|-------|---------------|------|-------------------|------------|--------------------|--------|--------------------|
| COLOUR STRIPE | YELLOW | RED  | RED<br>WHITE | WHITE | WHITE<br>BLUE | BLUE | BLUE<br>DK. BROWN | DARK BROWN | DK BROWN<br>ORANGE | ORANGE | ORANGE<br>DK.GREEN |
| PSI           | GPM    | GPM  | GPM          | GPM   | GPM           | GPM  | GPM               | GPM        | GPM                | GPM    | GPM                |
| 6             | 2.22   | 2.44 | 2.64         | 2.87  | 3.07          | 3.35 | 3.58              | 3.83       | 4.06               | 4.36   | 4.65               |
| 10            | 2.86   | 3.16 | 3.41         | 3.70  | 3.97          | 4.32 | 4.62              | 4.94       | 5.24               | 5.63   | 6.00               |
| 15            | 3.50   | 3.86 | 4.17         | 4.53  | 4.86          | 5.29 | 5.66              | 6.06       | 6.41               | 6.89   | 7.35               |
| 20            | 4.05   | 4.46 | 4.82         | 5.23  | 5.61          | 6.11 | 6.53              | 6.99       | 7.40               | 7.96   | 8.49               |
| 25            | 4.52   | 4.99 | 5.38         | 5.85  | 6.27          | 6.83 | 7.30              | 7.82       | 8.28               | 8.90   | 9.49               |
| 30            | 4.96   | 5.47 | 5.90         | 6.41  | 6.87          | 7.48 | 8.00              | 8.56       | 9.07               | 9.75   | 10.39              |
| 40            | 5.72   | 6.31 | 6.91         | 7.40  | 7.94          | 8.64 | 9.24              | 9.89       | 10.47              | 11.26  | 12.00              |
| 50            | 6.40   | 7.06 | 7.61         | 8.28  | 8.87          | 9.66 | 10.33             | 11.06      | 11.71              | 12.59  | 13.42              |

| NUMBER        | #34        | #35                 | #36    | #37             | #38   | #40            | #42     | #44    | #46   | #48       | #50    |
|---------------|------------|---------------------|--------|-----------------|-------|----------------|---------|--------|-------|-----------|--------|
| COLOUR STRIPE | DARK GREEN | DK. GREEN<br>PURPLE | PURPLE | PURPLE<br>BLACK | BLACK | DARK TURQUOISE | MUSTARD | MAROON | CREAM | DARK BLUE | COPPER |
| PSI           | GPM        | GPM                 | GPM    | GPM             | GPM   | GPM            | GPM     | GPM    | GPM   | GPM       | GPM    |
| 6             | 4.94       | 5.47                | 5.47   | 5.84            | 6.18  | 6.85           | 7.60    | 8.33   | 9.12  | 9.96      | 10.77  |
| 10            | 6.37       | 7.06                | 7.06   | 7.54            | 7.97  | 8.85           | 9.81    | 10.75  | 11.77 | 12.86     | 13.91  |
| 15            | 7.81       | 8.65                | 8.65   | 9.24            | 9.77  | 10.84          | 12.01   | 13.17  | 14.41 | 15.75     | 17.03  |
| 20            | 9.01       | 9.98                | 9.98   | 10.67           | 11.28 | 12.51          | 13.87   | 15.20  | 16.64 | 18.19     | 19.67  |
| 25            | 10.08      | 11.16               | 11.16  | 11.92           | 12.61 | 13.99          | 15.51   | 17.00  | 18.61 | 20.33     | 21.99  |
| 30            | 11.04      | 12.23               | 12.23  | 13.06           | 13.81 | 15.33          | 16.99   | 18.62  | 20.38 | 22.28     | 24.09  |
| 40            | 12.75      | 14.12               | 14.12  | 15.08           | 15.95 | 17.70          | 19.61   | 21.50  | 23.54 | 25.72     | 27.82  |
| 50            | 14.25      | 15.79               | 15.79  | 16.86           | 17.83 | 19.79          | 21.93   | 24.04  | 26.31 | 28.76     | 31.10  |



3TN NOZZLE



3NV NOZZLE

Part #: AS P9461-XX  
 (Replace XX with Nozzle #)



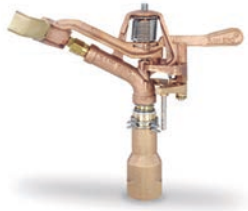
Use a Lo-Flow Pressure Regulator to ensure a uniform flow over uneven terrain and long spans.





## BRASS IMPACT SPRINKLERS

### 65PJ PERFORMANCE



Part #: AX 65PJ-ADJ-TNT  
 (1/4" Nozzle included)

1" Part Circle,  
 Brass Impact Sprinkler  
 Bearing: 1" FIPT Brass  
 Trajectory Angle: 27°  
 Stream Height: 10'  
 Operating Range: 50 - 80 PSI  
 Flow Rate: 12.9 - 16.5 GPM  
 Radius: 57 - 65'

### 65PJ PERFORMANCE PSI @ 1/4"

| NOZZLE | RADIUS | GPM  |
|--------|--------|------|
| 50     | 57     | 12.9 |
| 55     | 57     | 13.6 |
| 60     | 58     | 14.2 |
| 65     | 62     | 14.8 |
| 70     | 63     | 15.4 |
| 75     | 64     | 16.0 |
| 80     | 65     | 16.5 |

Rain Bird Part Circle Brass Impact Sprinklers are fully adjustable to cover any arc as well as a full 360°. On the #25, #35 & #65, the PJ arm reduces side splash; stream arc may also be adjusted with a deflector pad, and the adjustable diffuser screw alters stream dispersion.

### 85 ESHD PERFORMANCE



Part #: AX 85ESH  
 (Nozzles not included)

### 85 ESHD PERFORMANCE, NOZZLE & PLUG

| PSI    | 3/8" |     | 7/16" |     | 1/2" |     | 17/32" |     | 5/8" |     |
|--------|------|-----|-------|-----|------|-----|--------|-----|------|-----|
| NOZZLE | RAD. | GPM | RAD.  | GPM | RAD. | GPM | RAD.   | GPM | RAD. | GPM |
| 40     | 69   | 22  | 77    | 34  | 83   | 43  | 83     | 47  | 86   | 65  |
| 45     | 71   | 23  | 79    | 36  | 85   | 46  | 88     | 50  | 92   | 70  |
| 50     | 73   | 24  | 81    | 38  | 87   | 48  | 90     | 53  | 95   | 73  |
| 55     | 75   | 26  | 83    | 40  | 89   | 50  | 92     | 57  | 99   | 77  |
| 60     | 77   | 26  | 86    | 42  | 91   | 53  | 94     | 59  | 101  | 80  |
| 65     | 79   | 27  | 87    | 43  | 93   | 55  | 96     | 61  | 102  | 84  |
| 70     | 81   | 28  | 89    | 45  | 94   | 58  | 98     | 64  | 104  | 88  |
| 75     | 82   | 29  | 90    | 47  | 96   | 60  | 99     | 66  | 105  | 91  |
| 80     | 83   | 30  | 92    | 48  | 97   | 62  | 101    | 68  | 107  | 94  |
| 85     | 85   | 32  | 93    | 50  | 99   | 64  | 102    | 70  | 108  | 97  |
| 90     | 86   | 33  | 95    | 52  | 100  | 65  | 104    | 72  | 110  | 100 |
| 95     | 87   | 34  | 96    | 53  | 101  | 67  | 105    | 74  | 111  | 103 |
| 100    | 88   | 34  | 97    | 55  | 102  | 69  | 106    | 76  | 112  | 105 |

### 85 ESHD PERFORMANCE, NOZZLE AND SPREADER

| PSI    | 3/8" |     | 7/16" |     | 1/2" |     | 17/32" |     | 5/8" |     |
|--------|------|-----|-------|-----|------|-----|--------|-----|------|-----|
| NOZZLE | RAD. | GPM | RAD.  | GPM | RAD. | GPM | RAD.   | GPM | RAD. | GPM |
| 40     | 71   | 34  | 77    | 42  | 83   | 51  | 83     | 55  | 86   | 73  |
| 45     | 73   | 36  | 79    | 44  | 85   | 54  | 88     | 58  | 92   | 78  |
| 50     | 75   | 38  | 81    | 47  | 87   | 57  | 90     | 62  | 95   | 82  |
| 55     | 77   | 40  | 83    | 49  | 89   | 60  | 92     | 65  | 99   | 87  |
| 60     | 79   | 41  | 86    | 52  | 91   | 63  | 94     | 68  | 101  | 90  |
| 65     | 81   | 43  | 87    | 54  | 93   | 65  | 96     | 71  | 102  | 94  |
| 70     | 83   | 45  | 89    | 56  | 94   | 68  | 98     | 74  | 104  | 99  |
| 75     | 84   | 47  | 90    | 58  | 96   | 71  | 99     | 77  | 105  | 102 |
| 80     | 86   | 48  | 92    | 60  | 97   | 73  | 101    | 80  | 107  | 106 |
| 85     | 87   | 50  | 93    | 62  | 99   | 75  | 102    | 82  | 108  | 109 |
| 90     | 89   | 51  | 95    | 64  | 100  | 78  | 104    | 85  | 110  | 112 |
| 95     | 90   | 53  | 96    | 66  | 101  | 80  | 105    | 87  | 111  | 115 |
| 100    | 91   | 55  | 97    | 68  | 102  | 82  | 106    | 90  | 112  | 119 |

1 1/4" Part Circle,  
 Brass Impact Sprinkler  
 Bearing: 1 1/4" FIPT Brass  
 Trajectory Angle: 27°  
 Stream Height: 14'  
 Operating Range: 40-100 PSI  
 Flow Rate: 22-119 GPM  
 Radius: 62-112'

*When mounting an 85 ESHD on your Traveller, as a close range sprinkler, use a steel bracket.*

## BRASS IMPACT SPRINKLERS

### 2045-PJ



Part #: AX 2045-PJ-08  
 (Blue Nozzle included)

1/2" Part Circle  
 Plastic Impact Sprinkler  
 Bearing: 1/2" MIPT  
 Trajectory Angle: 23°  
 Stream Height: 6'  
 Operating Range: 25 - 60 PSI  
 Flow Rate: 2.0 - 6.4 GPM  
 Radius: 37 - 44'  
 2045PJ has a built in diffuser screw, while the 25BPJ has a built in diffuser screw and a distance control.

### 25BPJ-FP-ADJ-DA



Part #:  
 AX 25BPJFPADJDAT  
 (5/32" Nozzle included)

1/2" Part Circle  
 Brass Impact Sprinkler  
 Bearing: 1/2" MIPT  
 Trajectory Angle: 27°  
 Stream Height: 7'  
 Operating Range: 30 - 80 PSI  
 Flow Rate: 3.1 - 5.0 GPM  
 Radius: 38 - 41'

### 35A



Part #: AX 35A-TNT  
 (3/16" Nozzle included)

3/4" Part Circle,  
 Brass Impact Sprinkler  
 Bearing: 3/4" MIPT  
 Trajectory Angle: 27°  
 Stream Height: 9'  
 Operating Range: 30 - 60 PSI  
 Flow Rate: 3.9 - 7.8 GPM  
 Radius: 42 - 51'

### 14070H



Part #: AX 14070  
 (Nozzles not included)

3/4" Full Circle,  
 Brass Impact Sprinkler  
 Bearing: 3/4" MIPT  
 Trajectory Angle: 270°  
 Stream Height: 10'  
 Operating Range: 40 - 80 PSI  
 Flow Rate: 9.3 - 23.0 GPM  
 Radius: 44 - 71'  
 Dual Nozzle Ports

**2045-PJ PERFORMANCE**

| PSI    | RED   |       | BLACK |      | BLUE  |       | YELLOW |       | 3' Stream height (low angle) BLACK |      |
|--------|-------|-------|-------|------|-------|-------|--------|-------|------------------------------------|------|
|        | 3/32" | 7/64" | 7/64" | 1/8" | 1/8"  | 5/32" | 5/32"  | 7/64" | 7/64"                              |      |
| NOZZLE | RAD.' | GPM   | RAD.' | GPM  | RAD.' | GPM   | RAD.'  | GPM   | RAD.'                              | GPM  |
| 25     | -     | -     | 22    | 2.20 | 35    | 2.80  | 38     | 4.20  | -                                  | -    |
| 35     | 37    | 2.00  | 37    | 2.70 | 38    | 3.30  | 41     | 4.80  | 37                                 | 2.00 |
| 45     | 38    | 2.30  | 39    | 3.00 | 40    | 3.70  | 42     | 5.40  | 38                                 | 2.30 |
| 55     | 38    | 2.50  | 41    | 3.30 | 41    | 4.10  | 43     | 6.00  | 38                                 | 2.50 |
| 60     | 38    | 2.60  | 41    | 3.50 | 42    | 4.20  | 44     | 6.40  | 38                                 | 2.60 |

### 25BPJ-FP-ADJ-DA PERFORMANCE

| PSI    | 9/64" |     | 5/32" |     |
|--------|-------|-----|-------|-----|
| NOZZLE | RAD.' | GPM | RAD.' | GPM |
| 30     | 38    | 3.1 | 39    | 3.8 |
| 35     | 38    | 3.4 | 39    | 4.1 |
| 40     | 39    | 3.6 | 40    | 4.4 |
| 45     | 39    | 3.8 | 40    | 4.7 |
| 50     | 40    | 4.0 | 41    | 5.0 |

### 35A PERFORMANCE

| PSI    | 5/32" |     | 1/64" |     | 3/16" |     |
|--------|-------|-----|-------|-----|-------|-----|
| NOZZLE | RAD.' | GPM | RAD.' | GPM | RAD.' | GPM |
| 30     | 42    | 3.9 | 43    | 4.6 | 44    | 5.5 |
| 35     | 43    | 4.2 | 44    | 5.0 | 46    | 6.0 |
| 40     | 44    | 4.5 | 45    | 5.4 | 47    | 6.4 |
| 45     | 44    | 4.7 | 46    | 5.7 | 48    | 6.8 |
| 50     | 45    | 5.0 | 47    | 6.0 | 49    | 7.2 |
| 55     | 45    | 5.2 | 48    | 6.3 | 50    | 7.5 |
| 60     | 46    | 5.4 | 48    | 6.6 | 51    | 7.8 |

Diffuser screws & distance control, as well as altering the stream characteristics, reduces the distance a sprinkler throws.

### 14070H PERFORMANCE, NOZZLE & PLUG

| PSI    | 3/16" |     | 13/64" |      | 7/32" |      | 1/4"  |      | 9/32" |      |
|--------|-------|-----|--------|------|-------|------|-------|------|-------|------|
| NOZZLE | RAD.' | GPM | RAD.'  | GPM  | RAD.' | GPM  | RAD.' | GPM  | RAD.' | GPM  |
| 40     | 50    | 6.5 | 51     | 7.6  | 52    | 8.8  | 54    | 11.5 | 56    | 14.6 |
| 45     | 51    | 6.9 | 52     | 8.1  | 54    | 9.3  | 56    | 12.2 | 58    | 15.4 |
| 50     | 52    | 7.2 | 53     | 8.5  | 55    | 9.8  | 57    | 12.9 | 59    | 16.3 |
| 55     | 53    | 7.6 | 54     | 8.9  | 56    | 10.3 | 59    | 13.5 | 61    | 17.1 |
| 60     | 53    | 7.9 | 55     | 9.3  | 57    | 10.8 | 60    | 14.1 | 62    | 17.8 |
| 65     | 54    | 8.3 | 56     | 9.7  | 58    | 11.2 | 61    | 14.7 | 63    | 18.5 |
| 70     | 55    | 8.6 | 57     | 10.0 | 59    | 11.6 | 62    | 15.2 | 65    | 19.2 |
| 75     | 55    | 8.9 | 58     | 10.4 | 60    | 12.1 | 63    | 15.7 | -     | -    |
| 80     | 56    | 9.1 | 58     | 10.7 | 61    | 12.4 | 64    | 16.3 | -     | -    |

### 14070H PERFORMANCE, NOZZLE & 1/8" 20° SPREADER

| PSI    | 3/16" |      | 13/64" |      | 7/32" |      | 1/4" |      | 9/32" |      |
|--------|-------|------|--------|------|-------|------|------|------|-------|------|
| NOZZLE | RAD.  | GPM  | RAD.   | GPM  | RAD.  | GPM  | RAD. | GPM  | RAD.  | GPM  |
| 40     | 50    | 9.3  | 51     | 10.5 | 52    | 11.7 | 54   | 14.4 | 56    | 17.4 |
| 45     | 51    | 9.9  | 52     | 11.1 | 54    | 12.4 | 56   | 15.2 | 58    | 18.5 |
| 50     | 52    | 10.4 | 53     | 11.7 | 55    | 13.1 | 57   | 16.1 | 59    | 19.5 |
| 55     | 53    | 10.9 | 54     | 12.3 | 56    | 13.7 | 59   | 16.9 | 61    | 20.4 |
| 60     | 53    | 11.4 | 55     | 12.8 | 57    | 14.3 | 60   | 17.6 | 62    | 21.3 |
| 65     | 54    | 11.9 | 56     | 13.3 | 58    | 14.9 | 61   | 18.3 | 63    | 22.2 |
| 70     | 55    | 12.4 | 57     | 13.8 | 59    | 15.4 | 62   | 19.0 | 65    | 23.0 |
| 75     | 55    | 12.8 | 58     | 14.3 | 60    | 16.0 | 63   | 19.7 | -     | -    |
| 80     | 56    | 13.2 | 58     | 14.8 | 61    | 16.5 | 64   | 20.3 | -     | -    |

## BRASS IMPACT SPRINKLERS

WR-33



Part #: BE WR33  
 (Nozzle included,  
 1/8" Plug included)

3/4" Full Circle,  
 Brass Impact Sprinkler  
 Bearing: 3/4" MIPT  
 Trajectory Angle: 27°  
 Stream Height: 8'  
 Operating Range: 30 - 80 PSI  
 Flow Rate: 2.9 - 16.3 GPM  
 Radius: 40 - 56'  
 Dual Nozzle Ports

The Wade Rain WR-33 may be used for general irrigation and frost control. The common nozzle set-up for irrigation is a 3/16" Nozzle and a 1/8" 20° Spreader. When setting up for frost protection use a 5/32" Nozzle and a 1/8" Plug.

WR-33 Performance, Nozzle & Plug

| PSI    | 9/64" |      | 5/32" |      | 11/64" |      | 3/16" |      |
|--------|-------|------|-------|------|--------|------|-------|------|
| NOZZLE | RAD.' | GPM  | RAD.' | GPM  | RAD.'  | GPM  | RAD.' | GPM  |
| 40     | 41    | 3.64 | 44    | 4.45 | 46     | 5.37 | 48    | 6.41 |
| 45     | 42    | 3.86 | 45    | 4.72 | 47     | 5.7  | 49    | 6.81 |
| 50     | 42    | 4.07 | 45    | 4.98 | 48     | 6.01 | 50    | 7.18 |
| 55     | 43    | 4.27 | 46    | 5.22 | 48     | 6.3  | 51    | 7.51 |
| 60     | 44    | 4.46 | 46    | 5.45 | 49     | 6.57 | 51    | 7.82 |

WR-33 Performance, Nozzle & 20° Spreader

| PSI    | 9/64" X 3/32" |      | 5/32" X 3/32" |      | 11/64" X 3/32" |      | 3/16" X 1/8" |      |
|--------|---------------|------|---------------|------|----------------|------|--------------|------|
| NOZZLE | RAD.'         | GPM  | RAD.'         | GPM  | RAD.'          | GPM  | RAD.'        | GPM  |
| 40     | 41            | 3.64 | 44            | 4.45 | 46             | 5.37 | 48           | 6.41 |
| 45     | 42            | 3.86 | 45            | 4.72 | 47             | 5.7  | 49           | 6.81 |
| 50     | 42            | 4.07 | 45            | 4.98 | 48             | 6.01 | 50           | 7.18 |
| 55     | 43            | 4.27 | 46            | 5.22 | 48             | 6.3  | 51           | 7.51 |
| 60     | 44            | 4.46 | 46            | 5.45 | 49             | 6.57 | 51           | 7.82 |



VYR sprinklers, manufactured in Spain, provide an economical substitution to traditional brass impact sprinklers. With comparable performance to Rain Bird, Wade Rain and Nelson impact sprinklers, VYR is the perfect option to provide solutions without breaking the bank. Each impact comes with a set of standard nozzles which are compatible with traditional brass impact nozzles.

| PART # | CONNECTION  | DESCRIPTION                    | NOZZLES PROVIDED | RECOMMENDED FLOW | RECOMMENDED PRESSURE | RADIUS |
|--------|-------------|--------------------------------|------------------|------------------|----------------------|--------|
| OG1370 | 1/2"        | FC/PC Plastic Impact Sprinkler | Various          | Various          | 40                   | 35'    |
| KG160  | 1 1/4" MIPT | FC/PC Brass Impact Sprinkler   | 11/32" x 9/64"   | 31 GPM           | 60 PSI               | 82'    |
| KG65F  | 1" FIPT     | FC/PC Brass Impact Sprinkler   | 1/4" x Plug      | 15.8 GPM         | 60 PSI               | 62'    |
| KG35   | 3/4" MIPT   | FC Brass Impact Sprinkler      | 5/32" x Plug     | 7.9 GPM          | 60 PSI               | 46'    |
| KG66   | 3/4" MIPT   | FC/PC Plastic Impact Sprinkler | 11/64" x 3/32"   | 7.9 GPM          | 60 PSI               | 46'    |
| KG70   | 3/4" MIPT   | FC Brass Impact Sprinkler      | 5/32" x Plug     | 9.6 GPM          | 60 PSI               | 50'    |



KG160



KG65F



KG35



KG66



KG70

# NELSON ROTATORS



R33 Rotator



Rotator Components



Plate & Cap Assembly



Body



Nozzle



Adapter

R2000 Rotator



R2000 WindFighter (WF) Rotator



Pressure Regulator & Check Valve

There are plenty of plate, cap & nozzle assemblies for R2000, and R2000WF Sprinklers, for a wide variety of flow rates and distances.

## ROTATOR SPRINKLERS

| PART #         | DESCRIPTION  |
|----------------|--|
| AS P11466-1020 | R33 Sprinkler with Brown Plate, #20 Nozzle & 3/4" adapter (MIPT)     |
| AS P10519-1509 | K5 Orange Plate & Cap Assembly for R2000                             |
| AS P9155       | Body for R2000, (Female Acme)  |
| AS P9223-250   | Body for R2000, (Female Acme) with Brass 2.5 GPM Flow Control Nozzle |
| AS P10299-112  | Purple WF12 Plate & Cap Assembly for R2000 WF                        |
| AS P10299-114  | Green Plate WF14 & Cap Assembly for R2000 WF                         |
| AS P10299-116  | Red WF16 Plate & Cap Assembly for R2000 WF                           |
| AS P10299-216  | Red WF16 Plate & Cap Assembly for R2000 WF Low Pres.                 |
| AS P9920       | Body for R2000 (WF) WindFighter, (Female ACME)                       |
| AS P9306-078   | #10, Dark Blue 2TN Nozzle  |
| AS P9306-086   | #11, Orange 2TN Nozzle   |
| AS P9306-094   | #12, Purple 2TN Nozzle   |
| AS P9306-102   | #13, Yellow 2TN Nozzle   |
| AS P9306-109   | #14, Green 2TN Nozzle  |
| AS P9306-125   | #16, Red 2TN Nozzle  |
| AS P9306-141   | #18, Gold 2TN Nozzle   |
| AS P9306-156   | #20, Brown 2TN Nozzle  |
| AS P9316       | Male Acme x 1/2" MIPT, Adapter                                       |
| AS P9466       | Male Acme x 3/4" MIPT, Adapter                                       |
| AS 10406-030   | 30 psi Pres Reg & C.V. (1/2" FIPT x Male ACME)                       |
| AS 10406-050   | 50 psi Pres Reg & C.V. (1/2" FIPT x Male ACME)                       |
| AS 10407-030   | 30 psi Pres Reg & C.V. (Female ACME x Male ACME)                     |
| AS 10407-035   | 35 psi Pres Reg & C.V. (Female ACME x Male ACME)                     |
| AS 10407-050   | 50 psi Pres Reg & C.V. (Female ACME x Male ACME)                     |
| AS P9752-036   | FT4 36" Sprinkler Feed Tube  |
| AS P9737-048   | FT5 48" Sprinkler Feed Tube  |
| AS P9725-024   | 24" Steel Stake (8 mm) for Feed Tube                                 |
| AS P9726-048   | 48" Steel Stake (8 mm) for Feed Tube                                 |
| AS P10160      | 24" Fiberglass Stake (8 mm) for Feed Tube                            |
| AS 9677        | Feed Tube Sprinkler Connector (Male Acme to 10mm)                    |
| AS P9739       | Orange Female Quick Coupler for Poly Pipe                            |
| AS P9831       | Outer Goof Plug to seal poly pipe for Orange Female Quick Coupler    |
| AS P9826       | Inner Goof Plug for seal on Orange Female Quick Coupler              |
| AS 9774        | 10mm Compression to Poly Pipe barb (FT4)                             |
| AS 9099        | 500' Roll of 10mm Feed Tubing  |
| AS P11991-1113 | R2000 Rotator with K4 15° Plate and Yellow Nozzle (For Ginseng)      |



## NELSON ROTATORS

### NELSON ROTATOR PERFORMANCE

| PLATE                          | PSI          | 30         |      | 35     |     | 40     |     | 45     |     | 50     |     | 55     |     | 60     |     |
|--------------------------------|--------------|------------|------|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|
|                                |              | 2TN NOZZLE | GPM  | RAD. ' | GPM | RAD. ' | GPM | RAD. ' | GPM | RAD. ' | GPM | RAD. ' | GPM | RAD. ' | GPM |
| R2000 ROTATOR                  |              |            |      |        |     |        |     |        |     |        |     |        |     |        |     |
| K5 9° ORANGE                   | #15 TAN      | 2.4        | 3.64 | 2.4    | 28' | 2.5    | 29' | 2.7    | 29' | 2.8    | 29' | 3.0    | 29' |        |     |
|                                | #16 RED      | 2.7        | 3.86 | 2.7    | 29' | 2.9    | 30' | 3.1    | 30' | 3.2    | 31' | 3.4    | 31' |        |     |
| R2000 WINDFIGHTER (WF) ROTATOR |              |            |      |        |     |        |     |        |     |        |     |        |     |        |     |
| WF 12° PURPLE                  | #10 DK. BLUE | 0.8        | 34'  | 1.1    | 35' | 1.1    | 36' | 1.2    | 36' | 1.3    | 36' | 1.3    | 35' | 1.4    | 35' |
|                                | #11 ORANGE   | 1.2        | 36'  | 1.3    | 36' | 1.4    | 37' | 1.5    | 37' | 1.5    | 38' | 1.6    | 38' | 1.7    | 38' |
|                                | #12 PURPLE   | 1.4        | 37'  | 1.5    | 38' | 1.6    | 39' | 1.7    | 39' | 1.8    | 39' | 1.9    | 39' | 2.0    | 39' |
| WF 14° GREEN                   | #13 YELLOW   | 1.6        | 36'  | 1.8    | 37' | 1.9    | 38' | 2.0    | 38' | 2.1    | 38' | 2.2    | 38' | 2.3    | 38' |
|                                | #14 GREEN    | 1.9        | 37'  | 2.0    | 38' | 2.2    | 39' | 2.3    | 39' | 2.4    | 40' | 2.5    | 39' | 2.6    | 39' |
| WF 16° RED                     | #15 TAN      | 2.2        | 38'  | 2.4    | 39' | 2.5    | 40' | 2.7    | 40' | 2.8    | 41' | 3.0    | 40' | 3.1    | 40' |
|                                | #16 RED      | 2.5        | 39'  | 2.7    | 39' | 2.9    | 39' | 3.1    | 40' | 3.2    | 41' | 3.4    | 41' | 3.5    | 41' |
| WF 16° RED LP                  | #15 TAN      | 2.2        | 41'  | 2.4    | 41' | 2.5    | 41' | 2.7    | 41' | 2.8    | 42' |        |     |        |     |
| R33 ROTATOR                    |              |            |      |        |     |        |     |        |     |        |     |        |     |        |     |
| BROWN                          | #20 BROWN    |            |      |        |     | 4.5    | 45' | 4.7    | 45' | 5.0    | 46' | 5.2    | 46' | 5.5    | 47' |

### GINSENG RISER QUICK CONNECT

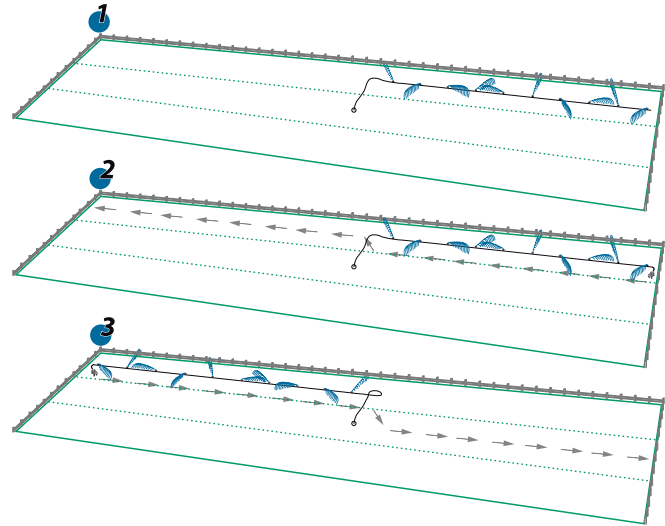
| PART #                | DESCRIPTION            | SIZE          |
|-----------------------|------------------------|---------------|
| AT 03N20STAND0948FSFN | Tube with Fast Connect | 48", 8mm Feed |
| AT 03N48              | Steel Stake            | 48"           |

Ask us about our **Independent Ginseng Riser**. Manufactured in house using Nelson and Netafim products, this system provides many advantages to ginseng irrigation. Layout was initially designed to avoid inconsistent uniformity in sprinklers, due to weathering of pipe causing sprinkler movement. With this model, you can guarantee your sprinkler will remain stationed all season long.



Independent Ginseng Riser

# K-LINE IRRIGATION



K-Line is a great solution to economically irrigate pastures & paddocks. Small pods protect low volume sprinklers mounted on a special flexible low density poly pipe. Pods are spaced every 50' and can be moved by an ATV while running.

The pods protect sprinklers when travelling and ensure sprinklers are upright when the move is complete. K-Line is a low pressure, low energy using irrigation system.



K-Line Pod  
 (Includes:  
 sprinkler,  
 riser,  
 saddle & bolts)

## K-LINE COMPONENTS

| PART #       | DESCRIPTION                           | SIZE            |
|--------------|---------------------------------------|-----------------|
| AH KL40P5NG  | Pod & Naan Sprinkler (Green Noz.)     | 40 mm           |
| AH KL40P5LR  | Pod & Nelson Sprinkler (WF 16)        | 40 mm           |
| AH KL40LD300 | K-Line Low Density Poly Pipe          | 40 mm x 300'    |
| AH KLASC40   | Coupler, Comp. x Comp.                | 40 mm           |
| AH APU40     | Union for Poly Pipe, FIPT x FIPT      | 40 mm (1 1/2")  |
| AH APU4032   | Red. Union for Poly Pipe, FIPT x FIPT | 1 1/4" x 1 1/2" |
| AH KLAF40    | Female Adapter, Comp. x FIPT          | 40 mm x 1 1/2"  |
| AH KLAMC40   | Male Adapter, Comp. x MIPT            | 40 mm x 1 1/2"  |
| AH RXGHC32   | Galv. Cap with Hook, FIPT             | 1 1/4"          |
| AH RXGHC40   | Galv. Cap with Hook, FIPT             | 1 1/2"          |
| AH KLPRV4050 | Pressure Regulator, MIPT x MIPT       | 50 psi, 1 1/2"  |
| AH KLPRV4057 | Pressure Regulator, MIPT x MIPT       | 57 psi, 1 1/2"  |

Naan Impact Sprinkler



Nelson  
 WF Rotator

Coupler



Union

Fem. Adapter

Male Adapter



Galvanized Cap



Pressure Regulator

More sizes are available. Contact our expert Sales Team for more information.



## D10 - S10 - R10 SPRAYS - SPINNERS - ROTATORS

### D-10 - S10 - R10 COMPONENTS



D10 with adapter and nozzle

|                  | PART #        | DESCRIPTION                |
|------------------|---------------|----------------------------|
| <b>D10 SPRAY</b> | AS P10135-001 | D10 with Black Fixed Plate |



S10

|                    |                |   |
|--------------------|----------------|---|
| <b>S10 SPINNER</b> | AS P10078-1000 | S10 with Green Plate, Low Trajectory - Upright or Inverted  |
|                    | AS P10078-2000 | S10 with Black Plate, High Trajectory - Upright or Inverted |
|                    | AS P10078-3000 | S10 with Grey Plate, Flat Trajectory - Inverted             |



R10

|                    |               |  |
|--------------------|---------------|--|
| <b>R10 ROTATOR</b> | AS P9914-8003 | R10 with Grey Plate, Flat Trajectory - Inverted            |
|                    | AS P9914-8004 | R10 with Green Plate, Low Trajectory - Upright or Inverted |
|                    | AS P9914-8005 | R10 with Black Plate, High Trajectory - Upright            |



Adapter

|                 |          |                       |
|-----------------|----------|-----------------------|
| <b>ADAPTERS</b> | AS P9316 | Male Acme x 1/2" MIPT |
|                 | AS P9466 | Male Acme x 3/4" MIPT |



Pressure Regulator with Check Valve

|                           |              |  |
|---------------------------|--------------|--|
| <b>PRESSURE REGULATOR</b> | AS 10406-030 | 30 psi Pres Reg & C.V. (1/2" FIPT x Male ACME)   |
|                           | AS 10406-050 | 50 psi Pres Reg & C.V. (1/2" FIPT x Male ACME)   |
|                           | AS 10407-030 | 30 psi Pres Reg & C.V. (Female ACME x Male ACME) |
|                           | AS 10407-035 | 35 psi Pres Reg & C.V. (Female ACME x Male ACME) |
|                           | AS 10407-050 | 50 psi Pres Reg & C.V. (Female ACME x Male ACME) |

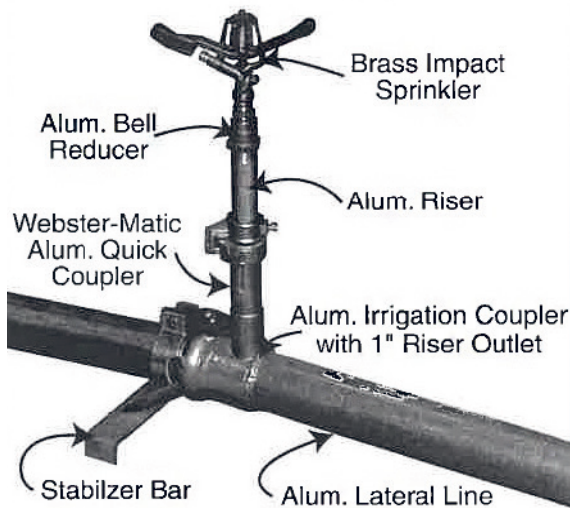


Nozzle

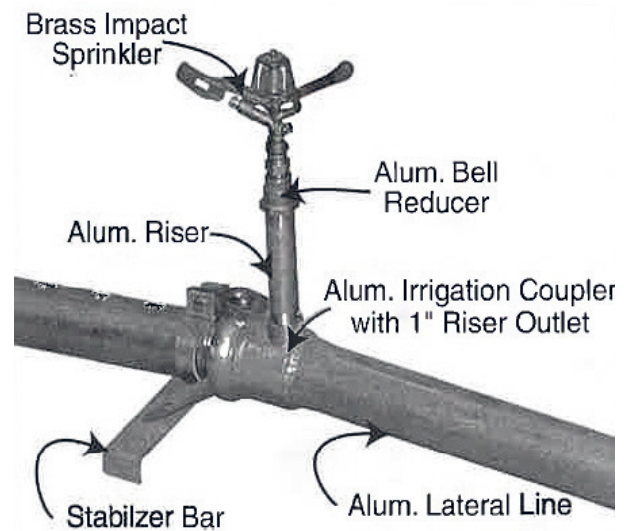
|                                 |              |                                 |
|---------------------------------|--------------|---------------------------------|
| <b>NOZZLES:<br/>20 - 50 PSI</b> | AS P9306-078 | #10, Dark Blue, 0.79 - 1.25 GPM |
|                                 | AS P9306-086 | #11, Orange, 0.95 - 1.53 GPM    |
|                                 | AS P9306-094 | #12, Purple, 1.14 - 1.80 GPM    |
|                                 | AS P9306-102 | #13, Yellow, 1.34 - 2.13 GPM    |
|                                 | AS P9306-109 | #14, Green, 1.52 - 2.40 GPM     |
|                                 | AS P9306-125 | #16, Red, 2.04 - 3.23 GPM       |
|                                 | AS P9306-141 | #18, Gold, 2.61 - 4.11 GPM      |
|                                 | AS P9306-156 | #20, Brown, 3.18 - 5.00 GPM     |

# SPRINKLER IRRIGATION

Sprinkler Riser with Webster



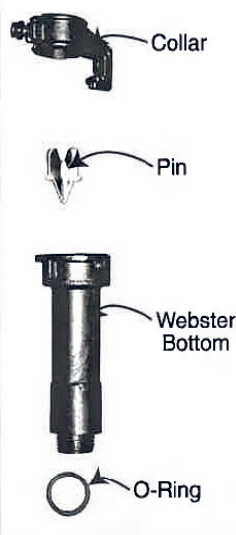
Sprinkler Riser



Sprinkler Systems are a time tested method of providing irrigation and frost protection. A sprinkler system is composed of a main line which supplies water from the pump to the field, a header line which carries water across the field, and lateral lines which distribute water throughout the field.

Lateral lines are laid out at evenly spaced intervals, and may be moved across a field (by hand) as in a Hand Move Portable/Semi-Permanent System, or lateral lines may sit in place for an entire season as a Solid-Set Permanent System.

A Hand-Move System saves on the number of lateral lines and sprinklers, but is labour intensive; a Solid-Set Permanent System uses more material, but once it is set up you'll have great flexibility with water application rates and volume.



Webster-Matic cast aluminum quick coupler will speed up sprinkler set up, and eliminate time consuming system shut downs. The twist and lock system means no tools are needed to place sprinklers in the field. The internal check ball allows you to replace sprinklers while the system is running without getting wet. Irrigation pipe equipped with Websters are easier to store and use in the field, while your sprinklers and riser tubing is less-likely to be damaged.

## WEBSTER & PIPE FITTINGS

| PART #      | DESCRIPTION                               |
|-------------|---|
| BG 6-100FIW | 1" Webster Valve - w/o collar & pin       |
| BGP6-100CS  | Collar w screw for 1" Webster             |
| BGP6-100N   | Nipple for 1" Webster                     |
| BGP6-100OR  | O-Ring for 1" Webster                     |
| BGP6-100TG  | Top Gasket for 1" Webster                 |
| BGP6-100VB  | Valve ball for 1" Webster                 |
| GA PSTAB    | Stabilizer Bar with Nuts & Bolts          |
| BE 11500-1  | Plug, 1/2" MIPT                           |
| BE 11500-2  | Plug, 3/4" MIPT                           |
| BE 11500-3  | Plug, 1" MIPT                             |
| BE 11500-4  | Plug, 1 1/4" MIPT                         |
| BE 11501-1  | Bell Reducer, 3/4" x 1/2" FIPT x FIPT     |
| BE 11501-2  | Bell Reducer, 1" x 1/2" FIPT x FIPT       |
| BE 11501-3  | Bell Reducer, 1" x 3/4" FIPT x FIPT       |
| BE 11502-1  | Reducing Bushing, 3/4" x 1/2" MIPT x FIPT |
| BE 11502-2  | Reducing Bushing, 1" x 1/2" MIPT x FIPT   |
| BE 11502-3  | Reducing Bushing, 1" x 3/4" MIPT x FIPT   |
| BE 11503-1  | Coupling, 1/2" FIPT x FIPT                |
| BE 11503-2  | Coupling, 3/4" FIPT x FIPT                |
| BE 11503-4  | Coupling, 1" FIPT x FIPT                  |



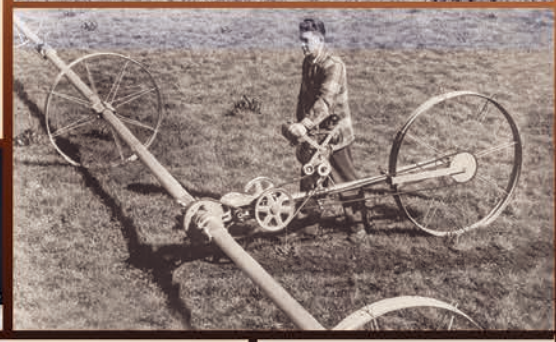
# WADE RAIN

A Division of  
**TRAVIS PATTERN & FOUNDRY, INC.**

MANUFACTURERS OF IRRIGATION PRODUCTS - SPOKANE, WA, USA



Agents for Oregon for the WALTER A. WOOD Reaping and Mowing Machines, and the STUDEBAKER Wagons. -  
**R. M. WADE & CO.**  
 COMMERCIAL STREET,  
 SALEM, OREGON.  
 IMPORTERS AND DEALERS IN  
**HARDWARE, STOVES,**  
 TIN WARE,  
**AGRICULTURAL IMPLEMENTS, WAGONS, ETC. ETC.**  
 Orders and Consignments will Receive Attention in Salem, Portland, San Francisco and New York.  
*Salem, Oregon, Oct 4 1895*



## WADE RAIN PIPE & COUPLERS



### ALUMINUM IRRIGATION TUBING WITH WADE RAIN COUPLERS

| PART #     | OUTSIDE DIAMETER | WALL THICKNESS | DESCRIPTION     |
|------------|------------------|----------------|-----------------|
| GA 02-30WR | 2" x 30'         | 0.050"         | 1" Riser Outlet |
| GA 03-30WR | 3" x 30'         | 0.050"         | 1" Riser Outlet |
| GA 04-30WR | 4" x 30'         | 0.050"         | 1" Riser Outlet |
| GA 05-30WR | 5" x 30'         | 0.052"         |                 |
| GA 06-30WR | 6" x 30'         | 0.058"         |                 |

Aluminum Pipe is also available in: 10', 20' & 40' as well as custom cut lengths.

With our fabrication facilities we can easily connect Wade Rain Fittings to a variety of materials and other irrigation couplers.

| Ring Lock Couplers with 1 Male Coupler, 1 Female Coupler with Gasket & 1 Locking Lever |           |        |  |
|--|-----------|--------|--|
| GA 06-30WR-RL  | 6" x 30'  | 0.058" |  |
| GA 08-30WR-RL  | 8" x 30'  | 0.072" |  |
| GA 10-30WR-RL  | 10" x 30' | 0.064" |  |

For fittings, please see page 69.

### Knob Style Couplers (includes Gasket)

\*Coupler with 1" FIPT for Riser, Plug not included.

| PART #                  | SIZE |
|-------------------------|------|
| <b>WELD-ON COUPLERS</b> |      |
| BE 1-2-1P*              | 2"   |
| BE 1-3-1WO*             | 3"   |
| BE 1-4-1WO*             | 4"   |
| BE 1-5-1WO*             | 5"   |
| BE 1-5-WO               | 5"   |
| BE 1-6-1WO              | 6"   |



| PART #                | SIZE |
|-----------------------|------|
| <b>FIELD COUPLERS</b> |      |
| BE 1-3-1C*            | 3"   |
| BE 1-4-1C*            | 4"   |
| BE 1-2-MC             | 2"   |
| BE 1-3-MC             | 3"   |
| BE 1-4-MC             | 4"   |
| BE 1-5-MC             | 5"   |
| BE 1-6-MC             | 6"   |



| PART #                 | SIZE |
|------------------------|------|
| <b>REPAIR COUPLERS</b> |      |
| BE 1-2-1S*             | 2"   |
| BE 1-3-1S*             | 3"   |
| BE 1-4-1S*             | 4"   |
| BE 1-5-1S*             | 5"   |



| PART #                  | SIZE |
|-------------------------|------|
| <b>BAND &amp; LATCH</b> |      |
| BE 8-2CX                | 2"   |
| BE 8-3CX                | 3"   |
| BE 8-4CX                | 4"   |
| BE 8-5DX                | 5"   |
| BE 8-6DX                | 6"   |



## HYDRANTS, T-VALVES & VALVE OPENERS

| PART #                      | PIPE SIZE                 | VALVE SIZE |
|-----------------------------|---------------------------|------------|
| <b>UNDERGROUND HYDRANTS</b> |                           |            |
| BE 7-3D                     | 3"                        | 3"         |
| BE 7-4D                     | 4"                        | 4"         |
| BE 7-6D                     | 6"                        | 6"         |
| GA HYD-DA2                  | 2" Drain Outlet - 4" & 6" |            |



| PART #                       | PIPE SIZE |
|------------------------------|-----------|
| <b>FIELD TEE (F x F x F)</b> |           |
| BE 2-2FC                     | 2"        |
| BE 2-3FC                     | 3"        |
| BE 2-4FC                     | 4"        |
| BE 2-5FC                     | 5"        |
| BE 2-6FC                     | 6"        |



| PART #                       | PIPE SIZE |
|------------------------------|-----------|
| <b>TEE VALVE (M x F x F)</b> |           |
| BE 2-2MXFR                   | 2"        |
| BE 2-3MXFR                   | 3"        |
| BE 2-4MXFR                   | 4"        |
| BE 2-5MXFR                   | 5"        |
| BE 2-6MXFR                   | 6"        |



| PART #                      | PIPE SIZE | VALVE SIZE |
|-----------------------------|-----------|------------|
| <b>VALVE OPENING ELBOWS</b> |           |            |
| BE 3-4-2E                   | 2"        | 3"         |
| BE 3-4-3E                   | 3"        | 3"         |
| BE 3-4-4E                   | 4"        | 3"         |



|           |    |    |
|-----------|----|----|
| BE 3-6-2E | 2" | 4" |
| BE 3-6-3E | 3" | 4" |
| BE 3-6-4E | 4" | 4" |
| BE 3-6-5E | 5" | 4" |



|            |    |    |
|------------|----|----|
| BE 3-6-2E  | 2" | 4" |
| BE 3-6-3E  | 3" | 4" |
| BE 3-6-4E  | 4" | 4" |
| BE 3-6-5E  | 5" | 4" |
| BE-3-6-6ES | 6" | 6" |



| PART #                   | PIPE SIZE | VALVE SIZE |
|--------------------------|-----------|------------|
| <b>TEE VALVE (M x F)</b> |           |            |
| BE 2-3-3MXF              | 3"        | 3"         |
| BE 2-4-3MXF              | 4"        | 3"         |
| BE 2-5-4MXF              | 5"        | 4"         |
| BE 2-6-4MXF              | 6"        | 4"         |
| BE 2-6-6MXF              | 6"        | 6"         |



Hydrants provide an On/Off connection from buried to above ground mainline or header. Tee Valves provide an On/Off Connection from an above ground header/main line to a lateral line.

To select the appropriate Valve/Hydrant Opener, first determine the size of valve you are connecting to; then determine the size of line that is coming off of the valve.

## ELBOWS, REDUCERS & PLUGS

### REVERSIBLE 90° ELBOW, (MXF)



| PART #     | SIZE |
|------------|------|
| BE 3-2MXFR | 2"   |
| BE 3-3MXFR | 3"   |
| BE 3-4MXFR | 4"   |
| BE 3-5MXFR | 5"   |
| BE 3-6MXFR | 6"   |

### REVERSIBLE 90° ELBOW WITH EXTENSION, (MXF)



| PART #          | SIZE |
|-----------------|------|
| BE 3-5MXFR-EX   | 5"   |
| BE 3-6MXFR-EX90 | 6"   |

### REVERSIBLE 45° ELBOW WITH EXTENSION, (MXF)



| PART #        | SIZE |
|---------------|------|
| BE 3-2MXFR-45 | 2"   |
| BE 3-3MXFR-45 | 3"   |
| BE 3-4MXFR-45 | 4"   |
| BE 3-5MXFR-45 | 5"   |
| BE 3-6MXFR-45 | 6"   |

### REVERSIBLE 45° ELBOW WITH EXTENSION (MXF)



| PART #          | SIZE |
|-----------------|------|
| BE 3-5MXFR-EX45 | 5"   |
| BE 3-6MXFR-EX45 | 6"   |

### FIELD 90° ELBOW, (FXF)



| PART #   | SIZE |
|----------|------|
| BE 3-2FC | 2"   |
| BE 3-3FC | 3"   |
| BE 3-4FC | 4"   |
| BE 3-5FC | 5"   |
| BE 3-6FC | 6"   |

### REDUCER, (MXF)



| PART #     | SIZE     |
|------------|----------|
| BE 4-3-2FC | 3" to 2" |
| BE 4-4-2FC | 4" to 2" |
| BE 4-4-3FC | 4" to 3" |
| BE 4-5-3FC | 5" to 3" |
| BE 4-5-4FC | 5" to 4" |
| BE 4-6-4FC | 6" to 4" |
| BE 4-6-5FC | 6" to 5" |

### REDUCER, (FXF)



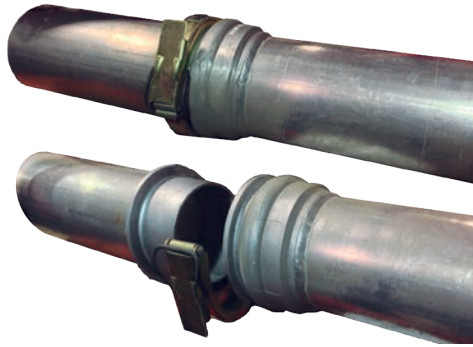
| PART #    | SIZE     |
|-----------|----------|
| BE 4-3-2C | 3" to 2" |
| BE 4-4-3C | 4" to 3" |
| BE 4-5-4C | 5" to 4" |
| BE 4-6-4C | 6" to 4" |
| BE 4-6-5C | 6" to 5" |

### END PLUG, (MALE)



| PART #   | SIZE |
|----------|------|
| BE 5-2CX | 2"   |
| BE 5-3CX | 3"   |
| BE 5-4CX | 4"   |
| BE 5-5DX | 5"   |
| BE 5-6DX | 6"   |

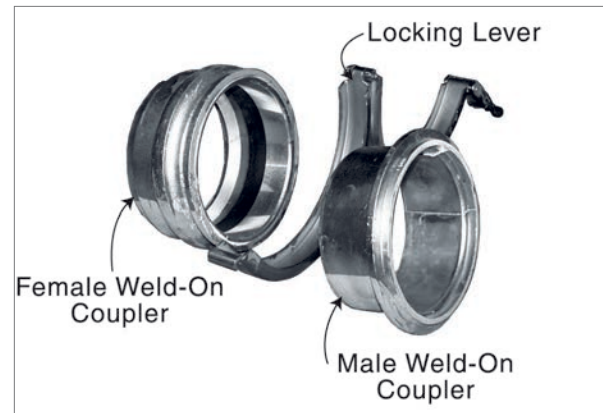
All Fittings include gaskets.  
 1" Plug not included.  
 Elbow Extensions prevent the fitting from binding, making it much easier to remove.



## RING-LOCK COUPLERS & FITTINGS

For high pressure and large volume flows, we recommend **Ring Lock Couplers**. Ring Lock Style Couplers provide a secure connection, particularly suited for piping long distance with a low pressure loss. 6", 8" & 10" Ring Lock include Wade Rain No Drain Gaskets.

### Weld-On Ring Lock Couplers



### RING LOCK FITTINGS

| PART #      | DESCRIPTION            | SIZE |
|-------------|------------------------|------|
| BE 1-6RF    | Weld-On Female Coupler | 6"   |
| BE 1-8RF    | Weld-On Female Coupler | 8"   |
| BE 1-10RF   | Weld-On Female Coupler | 10"  |
| BE 1-6RM    | Weld-On Male Coupler   | 6"   |
| BE 1-8RM    | Weld-On Male Coupler   | 8"   |
| BE 1-10RM   | Weld-On Male Coupler   | 10"  |
| BE 1-6RL    | Locking Lever          | 6"   |
| BE 1-8RL    | Locking Lever          | 8"   |
| BE 1-10RL   | Locking Lever          | 10"  |
| BE 3-6R-90  | 90° Elbow, (MxF)       | 6"   |
| BE 3-8R-90  | 90° Elbow, (MxF)       | 8"   |
| BE 3-10R-90 | 90° Elbow, (MxF)       | 10"  |
| BE 3-6R-45  | 45° Elbow, (MxF)       | 6"   |
| BE 3-8R-45  | 45° Elbow, (MxF)       | 8"   |
| BE 3-10R-45 | 45° Elbow, (MxF)       | 10"  |
| BE 5-6R     | End Plug (Male)        | 6"   |
| BE 5-8R     | End Plug (Male)        | 8"   |
| BE 5-10R    | End Plug (Male)        | 10"  |



Ring Lock 90° Elbow, (MxF)



Ring Lock 45° Elbow, (MxF)



Ring Lock End Plug (Male)

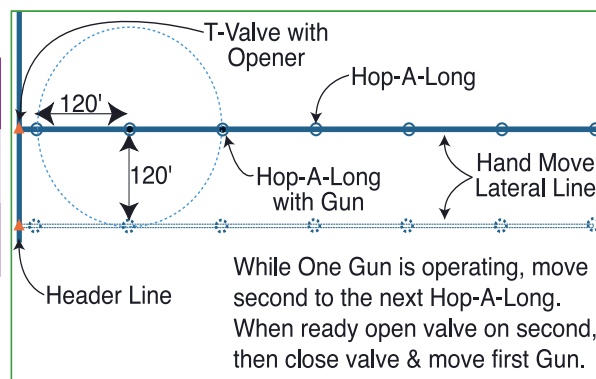
## HOP-A-LONGS

Hop-A-Longs are an economical innovation of Vanden Bussche Irrigation. Suited well for long narrow fields, they are laid in a manner very similar to Solid-Set Sprinkler Irrigation. The included On/Off Gate Valve allows one gun to operate while a second gun is being repositioned. Common spacings are 120' x 120' using 100 Series & 150' x 150' using a 150 Series Nelson Guns.



### HOP-A-LONGS

| PART #      | DESCRIPTION      | PIPE SIZE | CAM     |
|-------------|------------------|-----------|---------|
| GA HP4X2S   | 1 Leg Hop-A-Long | 4"        | None    |
| GA HP4X2S-F | 1 Leg Hop-A-Long | 4"        | 2" Male |



We also custom make Hop-A-Longs in 3", 4", 5" & 6", with single or double legs.

## PVC PIPE



### SERIES 160 (SDR 26) 20' LENGTHS, WHITE

| PART #        | END CONNECT TYPE | SIZE |
|---------------|------------------|------|
| ET A160G-400  | Gasket           | 4"   |
| ET A160G-600  | Gasket           | 6"   |
| ET A160G-800  | Gasket           | 8"   |
| ET A160G-1000 | Gasket           | 10"  |
| ET A160-125   | Glue, (Bell End) | 1 ¼" |
| ET A160-150   | Glue, (Bell End) | 1 ½" |
| ET A160-200   | Glue, (Bell End) | 2"   |
| ET A160-250   | Glue, (Bell End) | 2 ½" |
| ET A160-300   | Glue, (Bell End) | 3"   |
| ET A160-400   | Glue, (Bell End) | 4"   |

### SCHEDULE 40 GREY

| PART #    | END CONNECT TYPE             | SIZE |
|-----------|------------------------------|------|
| ET 40-005 | Glue, (Bell End) 10' Lengths | 1/2" |
| ET 40-075 | Glue, (Bell End) 10' Lengths | 3/4" |
| ET 40-100 | Glue, (Bell End) 10' Lengths | 1"   |
| ET 40-125 | Glue, (Bell End) 10' Lengths | 1 ¼" |
| ET 40-150 | Glue, (Bell End) 10' Lengths | 1 ½" |
| ET 40-200 | Glue, (Bell End) 10' Lengths | 2"   |
| ET 40-250 | Glue, (Bell End) 10' Lengths | 2 ½" |
| ET 40-300 | Glue, (Bell End) 10' Lengths | 3"   |
| ET 40-400 | Glue, (Bell End) 20' Lengths | 4"   |
| ET 40-600 | Glue, (Bell End) 20' Lengths | 6"   |

### SERIES 200 (SDR 21) 20' LENGTHS, WHITE

| PART #       | END CONNECT TYPE | SIZE |
|--------------|------------------|------|
| ET 200G-300  | Gasket           | 3"   |
| ET 200G-400  | Gasket           | 4"   |
| ET 200G-600  | Gasket           | 6"   |
| ET 200G-800  | Gasket           | 8"   |
| ET 200G-1000 | Gasket           | 10"  |
| ET 200G-1200 | Gasket           | 12"  |
| ET 200-075   | Glue, (Bell End) | 3/4" |
| ET 200-100   | Glue, (Bell End) | 1"   |
| ET 200-125   | Glue, (Bell End) | 1 ¼" |
| ET 200-150   | Glue, (Bell End) | 1 ½" |
| ET 200-200   | Glue, (Bell End) | 2"   |
| ET 200-250   | Glue, (Bell End) | 2 ½" |
| ET 200-300   | Glue, (Bell End) | 3"   |

### SCHEDULE 80 20' LENGTHS, GREY

| PART #    | END CONNECT TYPE        | SIZE |
|-----------|-------------------------|------|
| ET 80-005 | Plain Ends (no coupler) | 1/2" |
| ET 80-075 | Plain Ends (no coupler) | 3/4" |
| ET 80-125 | Plain Ends (no coupler) | 1 ¼" |
| ET 80-200 | Plain Ends (no coupler) | 2"   |
| ET 80-250 | Plain Ends (no coupler) | 2 ½" |
| ET 80-300 | Plain Ends (no coupler) | 3"   |
| ET 80-400 | Plain Ends (no coupler) | 4"   |
| ET 80-600 | Plain Ends (no coupler) | 6"   |

Our own fleet of carriers can deliver PVC Pipe directly to the installation site. We also can recommend proven contractors to install your buried PVC.

**REDUCING TEE (S x S x S)**



| PART #     | SIZE (inches)         |
|------------|-----------------------|
| BA 401-101 | 3/4 x 3/4 x 1/2       |
| BA 401-130 | 1 x 1 x 1/2           |
| BA 401-131 | 1 x 1 x 3/4           |
| BA 401-166 | 1 1/4 x 1 1/4 x 1/2   |
| BA 401-167 | 1 1/4 x 1 1/4 x 3/4   |
| BA 401-168 | 1 1/4 x 1 1/4 x 1     |
| BA 401-209 | 1 1/2 x 1 1/2 x 1/2   |
| BA 401-210 | 1 1/2 x 1 1/2 x 3/4   |
| BA 401-211 | 1 1/2 x 1 1/2 x 1     |
| BA 401-212 | 1 1/2 x 1 1/2 x 1 1/4 |
| BA 401-213 | 1 1/2 x 1 1/2 x 2     |
| BA 401-241 | 2 x 1 1/2 x 1 1/2     |
| BA 401-247 | 2 x 2 x 1/2           |
| BA 401-248 | 2 x 2 x 3/4           |
| BA 401-249 | 2 x 2 x 1             |
| BA 401-250 | 2 x 2 x 1 1/4         |
| BA 401-251 | 2 x 2 x 1 1/2         |
| BA 401-289 | 2 1/2 x 2 1/2 x 1     |
| BA 401-291 | 2 1/2 x 2 1/2 x 1 1/2 |
| BA 401-292 | 2 1/2 x 2 1/2 x 2     |
| BA 401-334 | 3 x 3 x 3/4           |
| BA 401-335 | 3 x 3 x 1             |
| BA 401-336 | 3 x 3 x 1 1/4         |
| BA 401-337 | 3 x 3 x 1 1/2         |
| BA 401-338 | 3 x 3 x 2             |
| BA 401-420 | 4 x 4 x 2             |
| BA 401-422 | 4 x 4 x 3             |
| BA 401-528 | 6 x 6 x 2             |
| BA 401-530 | 6 x 6 x 3             |
| BA 401-532 | 6 x 6 x 4             |
| BA 401-582 | 8 x 8 x 4             |
| BA 401-585 | 8 x 8 x 6             |

**COMBINATION TEE (S x S x FIPT)**



| PART #     | SIZE (inches) |
|------------|---------------|
| BA 402-005 | 1/2           |
| BA 402-007 | 3/4           |
| BA 402-010 | 1             |
| BA 402-012 | 1 1/4         |
| BA 402-015 | 1 1/2         |
| BA 402-020 | 2             |
| BA 402-025 | 2 1/2         |
| BA 402-030 | 3             |
| BA 402-040 | 4             |

**SCHEDULE 40 PVC FITTINGS**

**TEE (S x S x S)**



| PART #     | SIZE (inches) |
|------------|---------------|
| BA 401-005 | 1/2           |
| BA 401-007 | 3/4           |
| BA 401-010 | 1             |
| BA 401-012 | 1 1/4         |
| BA 401-015 | 1 1/2         |
| BA 401-020 | 2             |
| BA 401-025 | 2 1/2         |
| BA 401-030 | 3             |
| BA 401-040 | 4             |
| BA 401-060 | 6             |
| BA 401-080 | 8             |

**COMBINATION & REDUCING TEE (S x S x FIPT)**



| PART #     | SIZE (inches)         |
|------------|-----------------------|
| BA 401-101 | 3/4 x 3/4 x 1/2       |
| BA 401-130 | 1 x 1 x 1/2           |
| BA 401-131 | 1 x 1 x 3/4           |
| BA 401-166 | 1 1/4 x 1 1/4 x 1/2   |
| BA 401-167 | 1 1/4 x 1 1/4 x 3/4   |
| BA 401-168 | 1 1/4 x 1 1/4 x 1     |
| BA 401-209 | 1 1/2 x 1 1/2 x 1/2   |
| BA 401-210 | 1 1/2 x 1 1/2 x 3/4   |
| BA 401-211 | 1 1/2 x 1 1/2 x 1     |
| BA 401-212 | 1 1/2 x 1 1/2 x 1 1/4 |
| BA 401-213 | 1 1/2 x 1 1/2 x 2     |
| BA 401-241 | 2 x 1 1/2 x 1 1/2     |
| BA 401-247 | 2 x 2 x 1/2           |
| BA 401-248 | 2 x 2 x 3/4           |
| BA 401-249 | 2 x 2 x 1             |
| BA 401-250 | 2 x 2 x 1 1/4         |
| BA 401-251 | 2 x 2 x 1 1/2         |
| BA 401-289 | 2 1/2 x 2 1/2 x 1     |
| BA 401-291 | 2 1/2 x 2 1/2 x 1 1/2 |
| BA 401-292 | 2 1/2 x 2 1/2 x 2     |
| BA 401-334 | 3 x 3 x 3/4           |
| BA 401-335 | 3 x 3 x 1             |
| BA 401-336 | 3 x 3 x 1 1/4         |
| BA 401-337 | 3 x 3 x 1 1/2         |

## SCHEDULE 40 PVC FITTINGS

### THREADED TEE (FIPT x FIPT x FIPT)



| PART #     | SIZE (inches) |
|------------|---------------|
| BA 405-005 | 1/2           |
| BA 405-007 | 3/4           |
| BA 405-010 | 1             |
| BA 405-012 | 1 ¼           |
| BA 405-015 | 1 ½           |
| BA 405-020 | 2             |

### 90° ELBOW (S x S)



| PART #     | SIZE (inches) |
|------------|---------------|
| BA 406-005 | 1/2           |
| BA 406-007 | 3/4           |
| BA 406-010 | 1             |
| BA 406-012 | 1 ¼           |
| BA 406-015 | 1 ½           |
| BA 406-020 | 2             |
| BA 406-025 | 2 ½           |
| BA 406-030 | 3             |
| BA 406-040 | 4             |
| BA 406-060 | 6             |
| BA 406-080 | 8             |

### 90° COMBINATION ELBOW (S x FIPT)



| PART #     | SIZE (inches) |
|------------|---------------|
| BA 407-005 | 1/2           |
| BA 407-007 | 3/4           |
| BA 407-010 | 1             |
| BA 407-012 | 1 ¼           |
| BA 407-015 | 1 ½           |
| BA 407-020 | 2             |

### 90° COMBINATION & REDUCING ELBOW (S x FIPT)



| PART #     | SIZE (inches) |
|------------|---------------|
| BA 407-101 | 3/4 x 1/2     |
| BA 407-130 | 1 x 1/2       |
| BA 407-131 | 1 x 3/4       |

### 90° THREADED ELBOW (FIPT x FIPT)



| PART #     | SIZE (inches) |
|------------|---------------|
| BA 408-005 | 1/2           |
| BA 408-007 | 3/4           |
| BA 408-010 | 1             |
| BA 408-012 | 1 ¼           |
| BA 408-015 | 1 ½           |
| BA 408-020 | 2             |

### 90° STREET ELBOW (S x SP)



| PART #     | SIZE (inches) |
|------------|---------------|
| BA 409-005 | 1/2           |
| BA 409-007 | 3/4           |
| BA 409-010 | 1             |
| BA 409-015 | 1 ½           |

### 90° COMBINATION STREET ELBOW (S x MIPT)



| PART #     | SIZE (inches) |
|------------|---------------|
| BA 410-005 | 1/2           |
| BA 410-007 | 3/4           |
| BA 410-010 | 1             |
| BA 410-012 | 1 ¼           |
| BA 410-015 | 1 ½           |
| BA 410-020 | 2             |

### 90° STREET ELBOW (FIPT x MIPT)



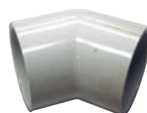
| PART #     | SIZE (inches) |
|------------|---------------|
| BA 412-005 | 1/2           |
| BA 412-007 | 3/4           |
| BA 412-010 | 1             |
| BA 412-012 | 1 ¼           |
| BA 412-015 | 1 ½           |
| BA 412-020 | 2             |

### 22° ELBOW (S x S)



| PART #     | SIZE (inches) |
|------------|---------------|
| BA 416-020 | 1/2           |
| BA 416-030 | 3/4           |
| BA 416-040 | 1             |

### 45° ELBOW (S x S)




| PART #     | SIZE (inches) |
|------------|---------------|
| BA 417-005 | 1/2           |
| BA 417-007 | 3/4           |
| BA 417-010 | 1             |
| BA 417-012 | 1 ¼           |
| BA 417-015 | 1 ½           |
| BA 417-020 | 2             |
| BA 417-025 | 2 ½           |
| BA 417-030 | 3             |
| BA 417-040 | 4             |
| BA 417-060 | 6             |
| BA 417-080 | 8             |




## SCHEDULE 40 PVC FITTINGS


### CROSS (S x S x S x S)

|   | PART #     | SIZE (inches) |
|---|------------|---------------|
|  | BA 420-005 | 1/2           |
|   | BA 420-007 | 3/4           |
|   | BA 420-010 | 1             |
|   | BA 420-012 | 1 ¼           |
|   | BA 420-015 | 1 ½           |
|   | BA 420-020 | 2             |
|   | BA 420-025 | 2 ½           |
|   | BA 420-030 | 3             |
|   | BA 420-040 | 4             |


### COUPLING (S x S)

|  | PART #     | SIZE (inches) |
|--|------------|---------------|
|  | BA 429-005 | 1/2           |
|  | BA 429-007 | 3/4           |
|  | BA 429-010 | 1             |
|  | BA 429-012 | 1 ¼           |
|  | BA 429-015 | 1 ½           |
|  | BA 429-020 | 2             |
|  | BA 429-025 | 2 ½           |
|  | BA 429-030 | 3             |
|  | BA 429-040 | 4             |
|  | BA 429-060 | 6             |
| BA 429-080   | 8          |               |


### REDUCING COUPLING (S x S)

|   | PART #     | SIZE (inches) |
|---|------------|---------------|
|  | BA 429-131 | 1 x 3/4       |
|   | BA 429-212 | 1 ½ x 1 ¼     |
|   | BA 429-251 | 2 x 1 ½       |
|   | BA 429-338 | 3 x 2         |
|   | BA 429-422 | 4 x 3         |
|   | BA 429-532 | 6 x 4         |


### THREADED COUPLING (FIPT x FIPT)

|   | PART #     | SIZE (inches) |
|---|------------|---------------|
|  | BA 430-005 | 1/2           |
|   | BA 430-007 | 3/4           |
|   | BA 430-010 | 1             |


### FEMALE ADAPTER (S x FIPT)

|  | PART #     | SIZE (inches) |
|--|------------|---------------|
|  | BA 435-005 | 1/2           |
|  | BA 435-007 | 3/4           |
|  | BA 435-010 | 1             |
|  | BA 435-012 | 1 ¼           |
|  | BA 435-015 | 1 ½           |
|  | BA 435-020 | 2             |
|  | BA 435-025 | 2 ½           |
|  | BA 435-030 | 3             |
|  | BA 435-040 | 4             |
|  | BA 435-060 | 6             |


### REDUCING FEMALE ADAPTER (S x FIPT)

|   | PART #     | SIZE (inches) |
|---|------------|---------------|
|  | BA 435-074 | 1/2 x 3/4     |
|   | BA 435-101 | 3/4 x 1/2     |
|   | BA 435-102 | 3/4 x 1       |
|   | BA 435-131 | 1 x 3/4       |
|   | BA 435-211 | 1 x 1 ½       |

### MALE ADAPTER (S x MIPT)

|  | PART #     | SIZE (inches) |
|--|------------|---------------|
|  | BA 436-005 | 1/2           |
|  | BA 436-007 | 3/4           |
|  | BA 436-010 | 1             |
|  | BA 436-012 | 1 ¼           |
|  | BA 436-015 | 1 ½           |
|  | BA 436-020 | 2             |
|  | BA 436-025 | 2 ½           |
|  | BA 436-030 | 3             |
|  | BA 436-040 | 4             |
|  | BA 436-060 | 6             |

### REDUCING MALE ADAPTER (MIPT x S)

|  | PART #     | SIZE (inches) |
|--|------------|---------------|
|  | BA 436-074 | 1/2 x 3/4     |
|  | BA 436-101 | 3/4 x 1/2     |
|  | BA 436-102 | 3/4 x 1       |
|  | BA 436-131 | 1 x 3/4       |
|  | BA 436-132 | 1 x 1 ¼       |
|  | BA 436-168 | 1 ¼ x 1       |
|  | BA 436-169 | 1 ¼ x 1 ½     |
|  | BA 436-212 | 1 ½ x 1 ¼     |
|  | BA 436-213 | 1 ½ x 2       |
|  | BA 436-251 | 2 x 1 ½       |
|  | BA 436-252 | 2 x 2 ½       |
|  | BA 436-341 | 3 x 4         |

## SCHEDULE 40 PVC FITTINGS

### REDUCING BUSHING (SP x S)

| PART #     | SIZE (inches) |
|------------|---------------|
| BA 437-101 | 3/4 x 1/2     |
| BA 437-130 | 1 x 1/2       |
| BA 437-131 | 1 x 3/4       |
| BA 437-167 | 1 1/4 x 3/4   |
| BA 437-168 | 1 1/4 x 1     |
| BA 437-209 | 1 1/2 x 1/2   |
| BA 437-210 | 1 1/2 x 3/4   |
| BA 437-211 | 1 1/2 x 1     |
| BA 437-212 | 1 1/2 x 1 1/4 |
| BA 437-248 | 2 x 3/4       |
| BA 437-249 | 2 x 1         |
| BA 437-250 | 2 x 1 1/4     |
| BA 437-251 | 2 x 1 1/2     |
| BA 437-289 | 2 1/2 x 1     |
| BA 437-290 | 2 1/2 x 1 1/4 |
| BA 437-291 | 2 1/2 x 1 1/2 |
| BA 437-292 | 2 1/2 x 2     |
| BA 437-335 | 3 x 1         |
| BA 437-336 | 3 x 1 1/4     |
| BA 437-337 | 3 x 1 1/2     |
| BA 437-338 | 3 x 2         |
| BA 437-339 | 3 x 2 1/2     |
| BA 437-420 | 4 x 2         |
| BA 437-421 | 4 x 2 1/2     |
| BA 437-422 | 4 x 3         |
| BA 437-530 | 6 x 3         |
| BA 437-532 | 6 x 4         |
| BA 437-582 | 8 x 4         |
| BA 437-585 | 8 x 6         |



### COMBINATION REDUCING BUSHING (SP x FIPT)

| PART #     | SIZE (inches) |
|------------|---------------|
| BA 438-071 | 1/2 x 1/8     |
| BA 438-072 | 1/2 x 1/4     |
| BA 438-098 | 3/4 x 1/4     |
| BA 438-101 | 3/4 x 1/2     |
| BA 438-130 | 1 x 1/2       |
| BA 438-131 | 1 x 3/4       |
| BA 438-166 | 1 1/4 x 1/2   |
| BA 438-167 | 1 1/4 x 3/4   |
| BA 438-168 | 1 1/4 x 1     |
| BA 438-209 | 1 1/2 x 1/2   |
| BA 438-210 | 1 1/2 x 3/4   |
| BA 438-211 | 1 1/2 x 1     |
| BA 438-212 | 1 1/2 x 1 1/4 |
| BA 438-247 | 2 x 1/2       |
| BA 438-248 | 2 x 3/4       |
| BA 438-249 | 2 x 1         |
| BA 438-250 | 2 x 1 1/4     |
| BA 438-251 | 2 x 1 1/2     |
| BA 438-289 | 2 1/2 x 1     |
| BA 438-290 | 2 1/2 x 1 1/4 |
| BA 438-291 | 2 1/2 x 1 1/2 |
| BA 438-292 | 2 1/2 x 2     |
| BA 438-335 | 3 x 1         |
| BA 438-336 | 3 x 1 1/4     |
| BA 438-337 | 3 x 1 1/2     |
| BA 438-338 | 3 x 2         |
| BA 438-339 | 3 x 2 1/2     |
| BA 438-420 | 4 x 2         |
| BA 438-422 | 4 x 3         |
| BA 438-532 | 6 x 4         |



### THREADED REDUCING BUSHING (MIPT x FIPT)

| PART #     | SIZE (inches) |
|------------|---------------|
| BA 439-072 | 1/2 x 1/4     |
| BA 439-098 | 3/4 x 1/4     |
| BA 439-101 | 3/4 x 1/2     |
| BA 439-130 | 1 x 1/2       |
| BA 439-131 | 1 x 3/4       |
| BA 439-167 | 1 1/4 x 3/4   |
| BA 439-168 | 1 1/4 x 1     |
| BA 439-209 | 1 1/2 x 1/2   |



### THREADED REDUCING BUSHING (MIPT x FIPT)

| PART #     | SIZE (inches) |
|------------|---------------|
| BA 439-210 | 1 1/2 x 3/4   |
| BA 439-211 | 1 1/2 x 1     |
| BA 439-212 | 1 1/2 x 1/4   |
| BA 439-249 | 2 x 1         |
| BA 439-250 | 2 x 1 1/4     |
| BA 439-251 | 2 x 1 1/2     |
| BA 439-292 | 2 1/2 x 2     |
| BA 439-338 | 3 x 2         |



We stock an extensive inventory of white fittings.  
 We also carry common sizes of grey schedule  
 40 fittings for use in greenhouses to prevent algae growth in pipes.  
 Grey Schedule 80 available upon request.

## SCHEDULE 40 PVC FITTINGS & PVC SADDLES

|  | PART # | SIZE (inches) |
|--|--------|---------------|
|--|--------|---------------|

### CAP (SLIP)



|            |     |
|------------|-----|
| BA 447-005 | 1/2 |
| BA 447-007 | 3/4 |
| BA 447-010 | 1   |
| BA 447-012 | 1 ¼ |
| BA 447-015 | 1 ½ |
| BA 447-020 | 2   |
| BA 447-025 | 2 ½ |
| BA 447-030 | 3   |
| BA 447-040 | 4   |
| BA 447-060 | 6   |
| BA 447-080 | 8   |

### CAP (FIPT)



|            |     |
|------------|-----|
| BA 448-005 | 1/2 |
| BA 448-007 | 3/4 |
| BA 448-010 | 1   |
| BA 448-012 | 1 ¼ |
| BA 448-015 | 1 ½ |
| BA 448-020 | 2   |
| BA 448-025 | 2 ½ |
| BA 448-030 | 3   |
| BA 448-040 | 4   |
| BA 448-060 | 6   |

### PLUG (SLIP)



|            |     |
|------------|-----|
| BA 449-005 | 1/2 |
| BA 449-007 | 3/4 |
| BA 449-010 | 1   |
| BA 449-015 | 1 ½ |
| BA 449-020 | 2   |

### PLUG (MIPT)



|            |     |
|------------|-----|
| BA 450-005 | 1/2 |
| BA 450-007 | 3/4 |
| BA 450-010 | 1   |
| BA 450-012 | 1 ¼ |
| BA 450-015 | 1 ½ |
| BA 450-020 | 2   |
| BA 450-025 | 2 ½ |
| BA 450-030 | 3   |
| BA 450-040 | 4   |

### BOLT ON SADDLES

Bolt on Saddle for mounting on all Series of PVC Pipe

| PART # | SIZE (inches) |
|--------|---------------|
|--------|---------------|

|               |                              |
|---------------|------------------------------|
| FL SADP205LB  | 2" x 1/2" (FIPT), Less Bolts |
| FL SADP2075LB | 2" x 3/4" (FIPT), Less Bolts |
| FL SAD21      | 2" x 1" (FIPT)               |
| FL SADP2575   | 2 ½" x 3/4" (FIPT)           |
| FL SAP31      | 3" x 1" (FIPT)               |
| FL SAP315     | 3" x 1 ½" (FIPT)             |
| FL SAP42      | 4" x 2" (FIPT)               |
| FL SAP42      | 6" x 4" (FIPT)               |



### WEDGE SADDLES

Snap on Saddle for mounting on all series of PVC Pipe

| PART # | SIZE (inches) |
|--------|---------------|
|--------|---------------|

|             |                              |
|-------------|------------------------------|
| FL SADP21   | 2" x 1/2" (FIPT), Less Bolts |
| FL SADP215  | 2" x 3/4" (FIPT), Less Bolts |
| FL SADP2515 | 2" x 1" (FIPT)               |
| FL SADP31   | 2 1/2" x 3/4" (FIPT)         |
| FL SADP315  | 3" x 1" (FIPT)               |
| FL SADP32   | 3" x 1 ½" (FIPT)             |
| FL SADP42   | 4" x 2" (FIPT)               |
| FL SADP62   | 6" x 4" (FIPT)               |
| FL SADP82   | 8" x 2" (FIPT)               |



### BONDABLE SADDLES

Glue on Saddle for mounting on all series of PVC Pipe.  
Works well with IPS Hose for a Header Line

| PART # | SIZE (inches) |
|--------|---------------|
|--------|---------------|

|              |                               |
|--------------|-------------------------------|
| AT 32S075P15 | 1 ½" x 3/4" Slip or 1" Spigot |
| AT 32S075P2  | 2" x 3/4" Slip or 1" Spigot   |
| AT 32S075P3  | 3" x 3/4" Slip or 1" Spigot   |
| AT 32S075P4  | 4" x 3/4" Slip or 1" Spigot   |



### BONDABLE SADDLES

Glue on Saddle for mounting on all series of PVC Pipe  
with an 18mm compression fitting (See page 38 for  
Netafim Tubing).

| PART # | SIZE (inches) |
|--------|---------------|
|--------|---------------|

|              |                        |
|--------------|------------------------|
| AT 32P15C700 | 1 ½" X 700 Compression |
| AT32P2C700   | 2" x 700 Compression   |
| AT 32P3C700  | 3" x 700 Compression   |
| AT 32P4C700  | 4" x 700 Compression   |



## SCHEDULE 80 PVC NIPPLES & FITTINGS

| PART #     | SIZE (inches) |
|------------|---------------|
| BA 205-011 | 1/2 x (close) |
| BA 205-020 | 1/2 x 2       |
| BA 205-025 | 1/2 x 2 1/2   |
| BA 205-030 | 1/2 x 3       |
| BA 205-040 | 1/2 x 4       |
| BA 205-050 | 1/2 x 5       |
| BA 205-060 | 1/2 x 6       |
| BA 205-080 | 1/2 x 8       |
| BA 205-100 | 1/2 x 10      |
| BA 205-120 | 1/2 x 12      |
| BA 205-180 | 1/2 x 18      |
| BA 205-240 | 1/2 x 24      |
| BA 205-360 | 1/2 x 36      |
| BA 205-480 | 1/2 x 48      |

|            |               |
|------------|---------------|
| BA 207-013 | 3/4 x (close) |
| BA 207-020 | 3/4 x 2       |
| BA 207-030 | 3/4 x 3       |
| BA 207-040 | 3/4 x 4       |
| BA 207-060 | 3/4 x 6       |
| BA 207-080 | 3/4 x 8       |
| BA 207-120 | 3/4 x 12      |
| BA 207-180 | 3/4 x 18      |
| BA 207-240 | 3/4 x 24      |
| BA 207-360 | 3/4 x 36      |
| BA 207-480 | 3/4 x 48      |

|            |             |
|------------|-------------|
| BA 210-015 | 1 x (close) |
| BA 210-020 | 1 x 2       |
| BA 210-030 | 1 x 3       |
| BA 210-040 | 1 x 4       |
| BA 210-060 | 1 x 6       |
| BA 210-080 | 1 x 8       |
| BA 210-100 | 1 x 10      |
| BA 210-120 | 1 x 12      |
| BA 210-180 | 1 x 18      |
| BA 210-240 | 1 x 24      |

| PART #     | SIZE (inches)   |
|------------|-----------------|
| BA 212-016 | 1 1/4 x (close) |
| BA 212-020 | 1 1/4 x 2       |
| BA 212-025 | 1 1/4 x 2 1/2   |
| BA 212-030 | 1 1/4 x 3       |
| BA 212-040 | 1 1/4 x 4       |
| BA 212-060 | 1 1/4 x 6       |
| BA 212-080 | 1 1/4 x 8       |
| BA 212-120 | 1/2 x 8         |

|            |                 |
|------------|-----------------|
| BA 215-017 | 1 1/2 x (close) |
| BA 215-020 | 1 1/2 x 2       |
| BA 215-030 | 1 1/2 x 3       |
| BA 215-040 | 1 1/2 x 4       |
| BA 215-060 | 1 1/2 x 6       |
| BA 215-080 | 1 1/2 x 8       |
| BA 215-120 | 1 1/2 x 12      |

|            |             |
|------------|-------------|
| BA 220-020 | 2 x (close) |
| BA 220-025 | 2 x 2 1/2   |
| BA 220-030 | 2 x 3       |
| BA 220-040 | 2 x 4       |
| BA 220-060 | 2 x 6       |
| BA 220-080 | 2 x 8       |
| BA 220-100 | 2 x 10      |

|            |                 |
|------------|-----------------|
| BA 225-025 | 2 1/2 x (close) |
|------------|-----------------|

|            |             |
|------------|-------------|
| BA 230-026 | 3 x (close) |
| BA 230-030 | 3 x 3       |
| BA 230-080 | 3 x 8       |
| BA 230-100 | 3 x 10      |

|            |       |
|------------|-------|
| BA 240-040 | 4 x 4 |
| BA 240-080 | 4 x 8 |

| PART # | SIZE (inches) |
|--------|---------------|
|--------|---------------|

### UNION (S x S)



|            |       |
|------------|-------|
| BA 897-005 | 1/2   |
| BA 897-007 | 3/4   |
| BA 897-010 | 1     |
| BA 897-012 | 1 1/4 |
| BA 897-015 | 1 1/2 |
| BA 897-020 | 2     |
| BA 897-030 | 3     |
| BA 897-040 | 4     |

### UNION (FIPT x FIPT)



|            |       |
|------------|-------|
| BA 898-005 | 1/2   |
| BA 898-007 | 3/4   |
| BA 898-010 | 1     |
| BA 898-012 | 1 1/4 |
| BA 898-015 | 1 1/2 |
| BA 898-020 | 2     |
| BA 898-030 | 3     |

### COMPRESSION COUPLER, GASKETED



|            |       |
|------------|-------|
| BA 0110-10 | 1     |
| BA 0110-15 | 1 1/2 |
| BA 0110-20 | 2     |
| BA 0110-25 | 2 1/2 |
| BA 0110-30 | 3     |
| BA 0110-40 | 4     |
| BA 0110-60 | 6     |

### EXPANSION COUPLER (S x SP)



|           |       |
|-----------|-------|
| BA CUF010 | 1     |
| BA CUF015 | 1 1/2 |
| BA CUF020 | 2     |
| BA CUF025 | 2 1/2 |
| BA CUF030 | 3     |
| BA CUF040 | 4     |
| BA CUF060 | 6     |





# All of your AG irrigation needs.

LASCO Fittings offers Sch 40 and Sch 80 fittings in 1/2"-12", Class 125 fittings in 10" and 12", PVC Valves, Repair couplings and more!



**LASCO**<sup>®</sup>  
*Fittings, Inc.*

[www.lascofittings.com](http://www.lascofittings.com)

## WATER DRIVEN & ELECTRIC PUMPS

FOR FERTILIZER, ACID, SANITIZERS & MOST CHEMICALS

# MixRite



 FLEXFLOW

**DEMA**<sup>®</sup>

AGRICULTURE  
SOLUTIONS

# PVC FLANGES & ACCESSORIES



**XIRTEC 7 PVC PRIMER**  
 Softens the PVC for a solid weld; excellent choice for cold weather applications. Purple in colour.



| PART #   | SIZE                |
|----------|---------------------|
| ET 70HP  | Half Pint           |
| ET 70PT  | Pint                |
| ET 70QT  | Quart               |
| ET 70GL  | Gallon              |
| ET 70PTC | Clear Primer (Pint) |

**XIRTEC 11 PVC CEMENT**  
 For all classes and schedules, including Schedule 80. Heavy bodied with medium set. Grey in colour.



| PART #   | SIZE                                    |
|----------|---|
| ET 711HP | Half Pint                               |
| ET 711PT | Pint                                    |
| ET 711QT | Quart                                   |
| ET 711GL | Gallon                                  |
| ET 725QT | Ipex 25 Wet/Dry, Medium Body, Aqua Blue |

## TEFLON TAPE



| PART #   | SIZE                             |
|----------|----------------------------------|
| BA1-TTP  | 1/2" Pink Teflon Tape            |
| BA1-TTW  | 1/2" White Tape (520' roll)      |
| BA1-TTWD | 3/4" White Wide Tape (520' roll) |

## APPLICANT TOOLS



| PART #   | SIZE                        |
|----------|-----------------------------|
| ET074317 | 4" Roller for Qt. Can       |
| ETDQ-150 | Cap Dauber for Qt. Can      |
| ETDB75   | Cap Dauber for 1/2 Pint Can |

**PIPE CLAMPS FOR PVC PIPE**  
 Easy to install latchable clips will hold your PVC pipe securely



| PART #   | SIZE (inches) |
|----------|---------------|
| BA PP05  | 1/2           |
| BA PP075 | 3/4           |
| BA PP100 | 1"            |
| BA PP125 | 1 1/4         |
| BA PP150 | 1 1/2         |
| BA PP200 | 2             |
| BA PP300 | 3             |

| PART #               | SIZE (inches) |
|----------------------|---------------|
| <b>FLANGE (SLIP)</b> |               |
| BA 851-020           | 2             |
| BA 851-030           | 3             |
| BA 851-040           | 4             |
| BA 851-060           | 6             |

|                      |   |
|----------------------|---|
| <b>FLANGE (FIPT)</b> |   |
| BA 852-030           | 3 |
| BA 852-040           | 4 |

|  |   |
|--|---|
| <b>FLANGE, LOOSE RING (VANSTONE, SLIP)</b> |   |
| BA 854-030                                 | 3 |
| BA 854-040                                 | 4 |
| BA 854-060                                 | 6 |
| BA 854-080                                 | 8 |

|                       |    |
|-----------------------|----|
| <b>FLANGE GASKETS</b> |    |
| GA PVBFGR3            | 3  |
| GA PVBFGR4            | 4  |
| GA PVBFGR5            | 5  |
| GA PVBFGR6            | 6  |
| GA PVBFGR8            | 8  |
| GA PVBFGR10           | 10 |
| GA PVBFGR12           | 12 |

## FLANGE BOLT KITS (INCLUDE: BOLTS, WASHERS & NUTS)



Our **Flange Bolt Kits** come in a variety of sizes. The **3"** and **4"** kits come with a **5/8"** bolt, with lengths available from **1 1/2"** to **5 1/2"**. The **5"**, **6"** & **8"** Flange Bolt Kits come with a **3/4"** bolt, in lengths available ranging from **1 1/2"** to **6"** long.

Contact your sales rep to ensure you are ordering the correct kit for your project.

## UNDERGROUND RISERS & ACCESSORIES

### RISERS FOR WADE RAIN HYDRANTS

| PART #       | END CONNECT TYPE                         | SIZE    |
|--------------|--|---------|
| AR6642FF-22A | Complete Riser Assembly                  | 6" x 6" |
| AR 6442FF-22 | 42" High, MIPT, Double 2" Arm (use 7-4D) | 6" x 4" |
| AR 6642FF-22 | 42" High, MIPT, Double 2" Arm (use 7-6D) | 6" x 6" |
| AR 8642FF-22 | 42" High, MIPT, Double 2" Arm (use 7-6D) | 8" x 6" |
| AR664FF-2A   | Complete Riser Assembly                  | 6" x 6" |
| AR 6442FF-2  | 42" High, MIPT, Single 2" Arm (use 7-4D) | 6" x 4" |
| AR 6642FF-2  | 42" High, MIPT, Single 2" Arm (use 7-6D) | 6" x 6" |
| AR 8642FF-2  | 42" High, MIPT, Single 2" Arm (use 7-6D) | 8" x 6" |



Riser, Double Arm with Gasket x Gasket x MIPT



Riser, Single Arm with Gasket x Gasket x MIPT

### RISERS WITH UNIVERSAL VALVES FOR UNIVERSAL OPENERS

| PART #        | END CONNECT TYPE                      | SIZE    |
|---------------|---------------------------------------|---------|
| AR 6642FFV-22 | 42" High, Upward Valve, Double 2" Arm | 6" x 6" |
| AR 8642FFV-22 | 42" High, Upward Valve, Double 2" Arm | 8" x 6" |
| AR 6642FFV-2  | 42" High, Upward Valve, Single 2" Arm | 6" x 6" |
| AR 8642FFV-2  | 42" High, Upward Valve, Single 2" Arm | 8" x 6" |



Riser, Double Arm, Upward Opening Valve Gasket x Gasket x Valve

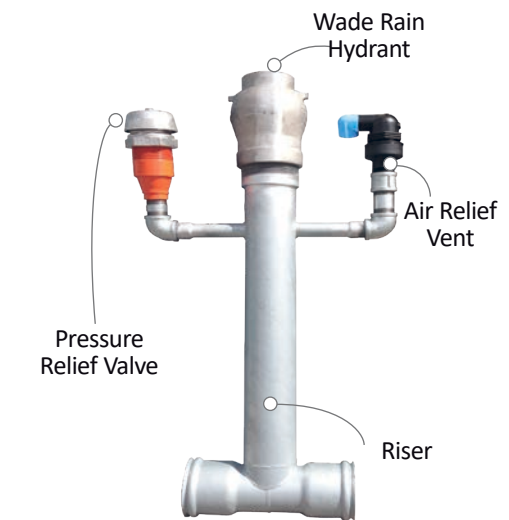


Riser, Single Arm, Upward Opening Valve Gasket x Gasket x Valve

|              |  |         |
|--------------|--|---------|
| BF SEP43     | Pressure Relief Valve, 125 to 180 P.S.I. | 4"      |
| BF SEP42AD   | Adapter for Pressure Relief Valve        | 2" x 4" |
| AT 65ARIB2PP | Continuous Air & Vacuum Relief Vent      | 2"      |
| BF AV-150B2  | Aluminum Air Relief Vent                 | 2"      |

|               |   |         |
|---------------|---|---------|
| BC SUVE0605   | Universal Steel Valve Opener                          | 6" x 5" |
| BC SUVE0606   | Universal Steel Valve Opener                          | 6" x 6" |
| BC SUVE0606X8 | Universal Steel Valve Opener with 8" height extension | 6" x 6" |

### Underground Riser for Wade Rain



For Wade Rain hydrants, please see page 67

Risers with Double Arms are to accommodate a Pressure Relief Valve & Air Vent and are placed at the beginning & end of the underground line. Risers with Single Arms are to accommodate Air Vents only.



Universal Valve Opener



Pressure Relief Valve 2" x 4" Adapter




Travis Air Relief Vent



Netafim Continuous Air Relief Vent

# GALVANIZED GASKETED FITTINGS

## Z-PIPES, COUPLERS & ELBOWS

|   | PART #      | END CONNECT TYPE                          | SIZE     |
|---|-------------|---|----------|
|  | AR 3-0566-0 | Z-Pipe, Flange x Flange                   | 4"       |
|   | AR 3-0567-0 | Z-Pipe, Flange x Coupler                  | 6"       |
|   | AR 3-0567-1 | Z-Pipe, Flange x Flange                   | 6"       |
|   | AR 3-7180-0 | Z-Pipe, Flange x Coupler                  | 8"       |
|   | AR 10ZP     | Z-Pipe, Flange x Coupler                  | 10"      |
|   | AR SA6      | Galvanized Starter Pipe, Flange x Coupler | 6" x 10' |

### STARTER COUPLER, FLANGE x COUPLER



| PART #    | SIZE |
|-----------|------|
| EPCFA4    | 4"   |
| AR EPCFA6 | 6"   |
| AR EPCFA8 | 8"   |

### WELD-ON COUPLER



| PART #   | SIZE |
|----------|------|
| AR EPSC4 | 4"   |
| AR EPSC6 | 6"   |
| AR EPSC8 | 8"   |

### REPAIR COUPLER



| PART #   | SIZE |
|----------|------|
| AR EPRS4 | 4"   |
| AR EPRS6 | 6"   |
| AR EPRS8 | 8"   |

### PIPE LUBRICANT

| PART #   | SIZE    |
|----------|---------|
| ETLUBE-Q | 1 QUART |



### REDUCING COUPLER



| PART #     | SIZE     |
|------------|----------|
| AR EPRC64  | 4" x 6"  |
| AR EPRC86  | 6" x 8"  |
| AR EPRC108 | 8" x 10" |

### 45° ELBOW (GASKET x GASKET)



| PART #     | SIZE |
|------------|------|
| AR EPL454  | 4"   |
| AR EPL456  | 6"   |
| AR EPL458  | 8"   |
| AR EPL4510 | 10"  |

### 90° ELBOW (GASKET x GASKET)




| PART #     | SIZE |
|------------|------|
| AR EPL904  | 4"   |
| AR EPL906  | 6"   |
| AR EPL908  | 8"   |
| AR EPL9010 | 10"  |




## GALVANIZED GASKETED FITTINGS


### TEE (GASKET x GASKET x GASKET)

|   | PART #    | SIZE    |
|---|-----------|---------|
|  | AR EPT4   | 4"      |
|   | AR EPT6   | 6"      |
|   | AR EPT664 | 6" x 4" |
|   | AR EPT8   | 8"      |
|   | AR EPT886 | 8" x 6" |
|   | AR EPT10  | 10"     |


### COMBO TEE (GASKET x GASKET x FIPT)

|  | PART #     | SIZE    |
|--|------------|---------|
|  | AR EPOCF44 | 4" x 4" |
|  | AR EPOCF64 | 6" x 4" |
|  | AR EPOCF66 | 6" x 6" |
|  | AR EPOCF83 | 8" x 3" |
|  | AR EPOCF86 | 8" x 6" |


### DEAD END (GASKETED CAP)

|  | PART #    | SIZE |
|--|-----------|------|
|  | AR EPDE4  | 4"   |
|  | AR EPDE6  | 6"   |
|  | AR EPDE8  | 8"   |
|  | AR EPDE10 | 10"  |

### CROSS (GASKET x GASKET x GASKET x GASKET)

|   | PART #  | SIZE |
|---|---------|------|
|  | AR EPX6 | 6"   |
|   | AR EPX8 | 8"   |

### END WYE (GASKET x GASKET x GASKET)

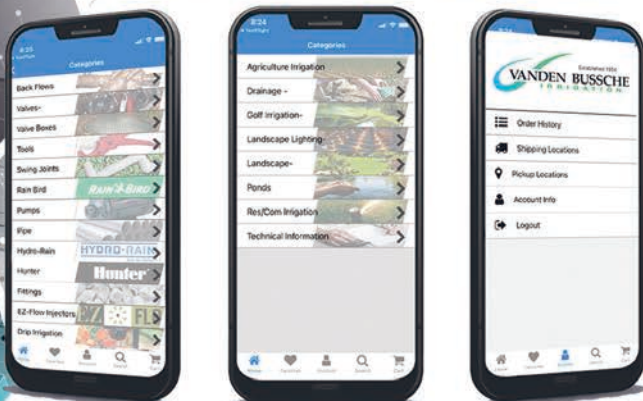
|   | PART #      | SIZE |
|---|-------------|------|
|  | AR EPY6-END | 6"   |
|   | AR EPY8-END | 8"   |

### IN LINE WYE (GASKET x GASKET x GASKET)

|  | PART #  | SIZE |
|--|---------|------|
|  | AR EPY6 | 6"   |

Ask our expert Sales Team about proper thrust blocking.

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## POLY PIPE & HIGH PRESSURE HOSE



Superb, high-quality flexible irrigation pipe available in a wide range of sizes and resins to meet your specifications and price.



**IPEX C.S.A. RED STRIPE - POLY PIPE**  
 APPROVED FOR POTABLE WATER, 75 PSI LOW DENSITY

| PART #      | SIZE   | ROLL LENGTH |
|-------------|--------|-------------|
| TN CSA07400 | 3/4"   | 400'        |
| TN CSA10300 | 1"     | 300'        |
| TN CSA12300 | 1 1/4" | 300'        |
| TN CSA15250 | 1 1/2" | 250'        |
| TN CSA20100 | 2"     | 100'        |

**OIL CREEK PLASTICS - POLY PIPE**  
 25 YEAR WARRANTY, 100 PSI, MEDIUM DENSITY

| PART #      | SIZE   | ROLL LENGTH |
|-------------|--------|-------------|
| TN NSF07100 | 3/4"   | 100'        |
| TN NSF07400 | 3/4"   | 400'        |
| TN NSF10100 | 1"     | 100'        |
| TN NSF10300 | 1"     | 300'        |
| TN NSF12300 | 1 1/4" | 300'        |
| TN NSF15250 | 1 1/2" | 250'        |
| TN NSF20100 | 2"     | 100'        |
| TN NSF20200 | 2"     | 200'        |



**IPEX IRRIGATION 2000 - POLY PIPE**  
 80 PSI, MEDIUM DENSITY

| PART #      | SIZE   | ROLL LENGTH |
|-------------|--------|-------------|
| TN IRR07100 | 3/4"   | 100'        |
| TN IRR07400 | 3/4"   | 400'        |
| TN IRR10100 | 1"     | 100'        |
| TN IRR10300 | 1"     | 300'        |
| TN IRR12300 | 1 1/4" | 300'        |
| TN IRR15250 | 1 1/2" | 250'        |
| TN IRR20100 | 2"     | 100'        |

### HIGH PRESSURE HOSE

| PART #                           | SIZE   | WORKING PSI |
|----------------------------------|--------|-------------|
| <b>REINFORCED CLEAR PVC HOSE</b> |        |             |
| EG RPH05                         | 1/2"   | 200         |
| EG RPH075                        | 3/4"   | 150         |
| EG RPH100                        | 1"     | 125         |
| EG RPH125                        | 1 1/4" | 100         |
| EG RPH150                        | 1 1/2" | 100         |

### MULTI-PURPOSE REINFORCED RED RUBBER HOSE

|           |        |     |
|-----------|--------|-----|
| EG MPH075 | 3/4"   | 200 |
| EG MPH100 | 1"     | 200 |
| EG MPH125 | 1 1/4" | 150 |
| EG MPH150 | 1 1/2" | 150 |
| EG MPH200 | 2"     | 150 |

### GARDEN HOSE

| PART #                   | SIZE                      |
|--------------------------|---------------------------|
| <b>GREEN GARDEN HOSE</b> |                           |
| EG GH07550               | 3/4" x 50' with couplers  |
| EG GH075100              | 3/4" x 100' with couplers |
| EG GH1050                | 1" x 50' with couplers    |
| EG GH1100                | 1" x 100' with couplers   |



Kuri Tec's Heavy Duty Reinforced PVC Water Hose is long lasting and abrasion resistant.

## LAYFLAT & OVAL HOSE


Oval hose or FlexNet are the best options for a dripperline header/manifold line. Layflat is a better choice for supply lines and delivery hoses for pumps and filters.

### LAYFLAT DISCHARGE HOSE

|   | PART #                                 | SIZE   | WORKING PSI           | ROLL LENGTH |
|---|--|--------|-----------------------|-------------|
|    | G-H HILCOFLEX AGRO, BLACK - HEAVY DUTY |        |                       |             |
|   | EGPIR3                                 | 3"     | 250                   | 660'        |
|   | EGPIR4                                 | 4"     | 250                   | 660'        |
|   | EGPIR5                                 | 5"     | 250                   | 660'        |
|   | IRONSIDES, BROWN - MEDIUM DUTY         |        |                       |             |
|   | EG IS150*                              | 1 1/2" | 150                   | 300'        |
|   | EGPR200                                | 2"     | 150                   | 300'        |
|   | EGPR300                                | 3"     | 150                   | 300'        |
|   | EGPR400                                | 4"     | 125                   | 300'        |
|  | LAYFLAT, GREEN & BLUE - STANDARD DUTY  |        |                       |             |
|   | EGPB200                                | 2"     | 80                    | 300'        |
|   | EGPB300                                | 3"     | 80                    | 300'        |
|   | EGPB400                                | 4"     | 80 </td <td>300'</td> | 300'        |




### OVAL TUBING

|   | PART #     | SIZE   | WORKING PSI | ROLL LENGTH |
|---|------------|--------|-------------|-------------|
|  | AA 1521600 | 1 1/2" | 21          | 600'        |
|   | AA 221     | 2"     | 21          | 450'        |
|   | AA 321     | 3"     | 21          | 200'        |
|   | AA 421     | 4"     | 21          | 130'        |



### FLEXNET PARTS

|   | PART #                | DESCRIPTION                                   |
|---|-----------------------|---|
|  | AT 05FXPLUG050MPT-B   | 1/2" MPT Short Plug (Bag 50)                  |
|   | AT 05FX050MTEX636TL-B | 630 TWD Tee Connection Twist Lock (Bag 100)   |
|   | AT 05FX050MELX636TL-B | 630 TWD Elbow Connection Twist Lock (Bag 100) |

Contact our expert Sales Team for available sizes and custom ordering.




Surface Installation



Subsurface Installation

# PVC INSERT FITTINGS

|   | PART #      | SIZE (inches) |
|---|-------------|---------------|
|  | BA 1401-005 | 1/2"          |
|   | BA 1401-007 | 3/4"          |
|   | BA 1401-010 | 1"            |
|   | BA 1401-012 | 1 1/4"        |
|   | BA 1401-015 | 1 1/2"        |
|   | BA 1401-020 | 2"            |
|   | BA 1401-030 | 3"            |
|   | BA 1401-040 | 4"            |

## REDUCING TEE (I x I x I)



|             |                          |
|-------------|--------------------------|
| BA 1401-074 | 1/2" x 1/2" x 3/4"       |
| BA 1401-094 | 3/4" x 1/2" x 1/2"       |
| BA 1401-101 | 3/4" x 3/4" x 1/2"       |
| BA 1401-102 | 3/4" x 3/4" x 1"         |
| BA 1401-125 | 1" x 3/4" x 3/4"         |
| BA 1401-130 | 1" x 1" x 1/2"           |
| BA 1401-131 | 1" x 1" x 3/4"           |
| BA 1401-132 | 1" x 1" x 1 1/4"         |
| BA 1401-157 | 1 1/4" x 1" x 3/4"       |
| BA 1401-158 | 1 1/4" x 1" x 1"         |
| BA 1401-166 | 1 1/4" x 1 1/4" x 1/2"   |
| BA 1401-167 | 1 1/4" x 1 1/4" x 3/4"   |
| BA 1401-168 | 1 1/4" x 1 1/4" x 1"     |
| BA 1401-202 | 1 1/2" x 1 1/4" x 1"     |
| BA 1401-209 | 1 1/2" x 1 1/2" x 1/2"   |
| BA 1401-210 | 1 1/2" x 1 1/2" x 3/4"   |
| BA 1401-211 | 1 1/2" x 1 1/2" x 1"     |
| BA 1401-212 | 1 1/2" x 1 1/2" x 1 1/4" |
| BA 1401-241 | 2" x 2" x 1/2"           |
| BA 1401-247 | 2" x 1 1/2" x 1 1/2"     |
| BA 1401-248 | 2" x 2" x 3/4"           |
| BA 1401-249 | 2" x 2" x 1"             |
| BA 1401-250 | 2" x 2" x 1 1/4"         |
| BA 1401-251 | 2" x 2" x 1 1/2"         |

## COMBINATION TEE (I x I x FIPT)



|             |        |
|-------------|--------|
| BA 1402-005 | 1/2"   |
| BA 1402-007 | 3/4"   |
| BA 1402-010 | 1"     |
| BA 1402-012 | 1 1/4" |
| BA 1402-015 | 1 1/2" |
| BA 1402-020 | 2"     |

| PART #   | SIZE (inches) |
|--|---------------|
| <b>COMBINATION &amp; REDUCING TEE (I x I x FIPT)</b> |               |



|             |                        |
|-------------|------------------------|
| BA 1402-101 | 3/4" x 3/4" x 1/2"     |
| BA 1402-124 | 1" x 3/4" x 1/2"       |
| BA 1402-125 | 1" x 3/4" x 3/4"       |
| BA 1402-130 | 1" x 1" x 1/2"         |
| BA 1402-131 | 1" x 1" x 3/4"         |
| BA 1402-157 | 1 1/4" x 1" x 3/4"     |
| BA 1402-166 | 1 1/4" x 1 1/4" x 1/2" |
| BA 1402-167 | 1 1/4" x 1 1/4" x 3/4" |
| BA 1402-168 | 1 1/4" x 1 1/4" x 1"   |
| BA 1402-209 | 1 1/2" x 1 1/2" x 1/2" |
| BA 1402-210 | 1 1/2" x 1 1/2" x 3/4" |
| BA 1402-211 | 1 1/2" x 1 1/2" x 1"   |
| BA 1402-247 | 2" x 2" x 1/2"         |
| BA 1402-248 | 2" x 2" x 3/4"         |
| BA 1402-249 | 2" x 2" x 1"           |
| BA 1402-251 | 2" x 2" x 1 1/2"       |

## COMBINATION TEE (I x I x MIPT)



|             |        |
|-------------|--------|
| BA 1403-005 | 1/2"   |
| BA 1403-007 | 3/4"   |
| BA 1403-010 | 1"     |
| BA 1403-012 | 1 1/4" |
| BA 1403-015 | 1 1/2" |
| BA 1403-020 | 2"     |

## 90° ELBOW (I x I)



|             |        |
|-------------|--------|
| BA 1406-005 | 1/2"   |
| BA 1406-007 | 3/4"   |
| BA 1406-010 | 1"     |
| BA 1406-012 | 1 1/4" |
| BA 1406-015 | 1 1/2" |
| BA 1406-020 | 2"     |
| BA 1406-030 | 3"     |
| BA 1406-040 | 4"     |

## REDUCING 90° ELBOW (I x I)



|             |             |
|-------------|-------------|
| BA 1406-101 | 3/4" x 1/2" |
| BA 1406-131 | 1" x 3/4"   |
| BA 1406-168 | 1 1/4" x 1" |

## COMBINATION 90° ELBOW (I x FIPT)



|             |        |
|-------------|--------|
| BA 1407-005 | 1/2"   |
| BA 1407-007 | 3/4"   |
| BA 1407-010 | 1"     |
| BA 1407-012 | 1 1/4" |
| BA 1407-015 | 1 1/2" |
| BA 1407-020 | 2"     |

## PVC INSERT FITTINGS

### COMBINATION & REDUCING 90° ELBOW (I x FIPT)



| PART #      | SIZE (inches)   |
|-------------|-----------------|
| BA 1407-101 | 3/4" x 1/2"     |
| BA 1407-130 | 1" x 1/2"       |
| BA 1407-131 | 1" x 3/4"       |
| BA 1407-166 | 1 1/4" x 1/2"   |
| BA 1407-167 | 1 1/4" x 3/4"   |
| BA 1407-168 | 1 1/4" x 1"     |
| BA 1407-211 | 1 1/2" x 1"     |
| BA 1407-212 | 1 1/2" x 1 1/4" |
| BA 1407-251 | 2" x 1 1/2"     |

### COMBINATION 90° ELBOW (I x MIPT)



|             |        |
|-------------|--------|
| BA 1413-005 | 1/2"   |
| BA 1413-007 | 3/4"   |
| BA 1413-010 | 1"     |
| BA 1413-012 | 1 1/4" |
| BA 1413-015 | 1 1/2" |
| BA 1413-020 | 2"     |

### CROSS (I x I x I x I)



|             |      |
|-------------|------|
| BA 1420-007 | 3/4" |
| BA 1420-010 | 1"   |

### COUPLING (I x I)



|             |        |
|-------------|--------|
| BA 1429-005 | 1/2"   |
| BA 1429-007 | 3/4"   |
| BA 1429-010 | 1"     |
| BA 1429-012 | 1 1/4" |
| BA 1429-015 | 1 1/2" |
| BA 1429-020 | 2"     |
| BA 1429-030 | 3"     |
| BA 1429-040 | 4"     |

### REDUCING COUPLING (I x I)



|             |                 |
|-------------|-----------------|
| BA 1429-101 | 3/4" x 1/2"     |
| BA 1429-130 | 1" x 1/2"       |
| BA 1429-131 | 1" x 3/4"       |
| BA 1429-167 | 1 1/4" x 3/4"   |
| BA 1429-168 | 1 1/4" x 1"     |
| BA 1429-210 | 1 1/2" x 3/4"   |
| BA 1429-211 | 1 1/2" x 1"     |
| BA 1429-212 | 1 1/2" x 1 1/4" |
| BA 1429-249 | 2" x 1"         |
| BA 1429-250 | 2" x 1 1/4"     |
| BA 1429-251 | 2" x 1 1/2"     |
| BA 1429-338 | 3" x 2"         |
| BA 1429-422 | 4" x 3"         |

### FEMALE ADAPTER (I x FIPT)



|             |        |
|-------------|--------|
| BA 1435-005 | 1/2"   |
| BA 1435-007 | 3/4"   |
| BA 1435-010 | 1"     |
| BA 1435-012 | 1 1/4" |
| BA 1435-015 | 1 1/2" |
| BA 1435-020 | 2"     |

### MALE ADAPTER (I x MIPT)



|             |        |
|-------------|--------|
| BA 1436-005 | 1/2"   |
| BA 1436-007 | 3/4"   |
| BA 1436-010 | 1"     |
| BA 1436-012 | 1 1/4" |
| BA 1436-015 | 1 1/2" |
| BA 1436-020 | 2"     |
| BA 1436-030 | 3"     |
| BA 1436-040 | 4"     |

### MALE REDUCING ADAPTER (MIPT x I)



|             |                  |
|-------------|------------------|
| BA 1436-074 | 1/2"             |
| BA 1436-075 | 3/4"             |
| BA 1436-101 | 1"               |
| BA 1436-102 | 1 1/4"           |
| BA 1436-131 | 1 1/2"           |
| BA 1436-132 | 2"               |
| BA 1436-133 | 3"               |
| BA 1436-167 | 4"               |
| BA 1436-168 | 3" for Flat Tube |
| BA 1436-169 | 4" for Flat Tube |
| BA 1436-211 | 3/4" x 1/2"      |
| BA 1436-212 | 1" x 1/2"        |
| BA 1436-213 | 1" x 3/4"        |
| BA 1436-251 | 1 1/4" x 3/4"    |

### PLUG (INSERT)







|             |        |
|-------------|--------|
| BA 1449-005 | 1/2"   |
| BA 1449-007 | 3/4"   |
| BA 1449-010 | 1"     |
| BA 1449-012 | 1 1/4" |
| BA 1449-015 | 1 1/2" |
| BA 1449-020 | 2"     |

## INSERT FITTINGS & ADAPTERS


### ZINC PLATED INSERT FITTINGS

|   | PART #      | SIZE (inches) |
|---|-------------|---------------|
| <b>COUPLING (I x I)</b>   |             |               |
|    | DC 075HM-PL | 3/4"          |
|   | DC 100HM-PL | 1"            |
|   | DC 125HM-PL | 1 1/4"        |
|   | DC 150HM-PL | 1 1/2"        |
|   | DC 200HM-PL | 2"            |
|   | DC 300HM-PL | 3"            |
|   | DC 400HM-PL | 4"            |
| <b>MALE ADAPTER (I x MIPT)</b>  |             |               |
|   | DC 075CN-PL | 3/4"          |
|   | DC 100CN-PL | 1"            |
|   | DC 125CN-PL | 1 1/4"        |
|   | DC 150CN-PL | 1 1/2"        |
|   | DC 200CN-PL | 2"            |
|   | DC 300CN-PL | 3"            |
|   | DC 400CN-PL | 4"            |
| <b>MALE ADAPTER, SMALL DIAMETER BARB (I x MIPT)</b>                                 |             |               |
|  | DC 012CN    | 1 1/4"        |
|   | DC 015CN    | 1 1/2"        |
|   | DC 020CN    | 2"            |

### INSERT ADAPTERS

|  | PART #       | SIZE (inches) |
|--|--------------|---------------|
| <b>ADAPTER (SLIP x INSERT)</b>   |              |               |
|    | BA 474-030   | 3"            |
|  | BA 474-040   | 4"            |
| <b>ADAPTER (SPIGOT x INSERT)</b>   |              |               |
|    | BA 474-030SP | 3"            |
|  | BA 474-040SP | 4"            |
| <b>COUPLER (INSERT x INSERT), LAYFLAT &amp; OVAL HOSE</b>                            |              |               |
|   | AA IC03      | 3"            |
|  | AA IC04      | 4"            |
| <b>MALE ADAPTER, LAYFLAT &amp; OVAL HOSE</b>   |              |               |
|  | AA IA4TH4    | 4"            |

## GARDEN HOSE FITTINGS

|   | PART #         | SIZE (inches)               |
|---|----------------|-----------------------------|
| <b>BARB x FEMALE HOSE THREAD</b>  |                |                             |
|  | OG 0625X075HBF | 5/8" BARB x 3/4" FHT, Brass |
|   | OG 075X075HBCS | 3/4" BARB x 3/4" FHT, Brass |
| <b>BARB x MALE HOSE THREAD</b>  |                |                             |
|  | OG 0625X075HBM | 5/8" BARB x 3/4" MHT, Brass |
|   | OG 075X075HBC  | 3/4" BARB x 3/4" MHT, Brass |
| <b>FEMALE HOSE ADAPTERS</b>   |                |                             |
|  | OG 075FSC      | 3/4", FHT x FHT, Brass      |
|   | DGBG19812      | 3/4", FHT x FIPT, Brass     |
|   | BA FHT-206     | 3/4", FHT x FIPT, PVC       |

|  | PART #         | SIZE (inches)                |
|--|----------------|------------------------------|
| <b>MALE HOSE ADAPTERS</b>  |                |                              |
|  | DGBG196W       | 3/4", MHT x MHT, Brass       |
|  | DGBG19612      | 3/4", MHT x MIPT, Brass      |
|  | BAMHT-106      | 3/4", MHT x MIPT, PVC        |
| <b>HOSE ADAPTERS</b>   |                |                              |
|  | DGBG19912      | 3/4", MIPT x FHT, Brass      |
|  | BA FAM-H5P     | 3/4", MIPT x FHT, PVC        |
|  | OG 075X075MHFI | 3/4", FIPT x MHT, Brass      |
| <b>HOSE WYE ADAPTERS</b>   |                |                              |
|  | OR 91700       | 3/4", FHT x MHT x MHT, Brass |

# GALVANIZED FITTINGS

## TEE (FIPT x FIPT x FIPT x FIPT)



| PART #        | SIZE (inches)        |
|---------------|----------------------|
| FH 0125TG     | 1/8"                 |
| FH 025TG      | 1/4"                 |
| FH 0375TG     | 3/8"                 |
| FH 05TG       | 1/2"                 |
| FH 075TG      | 3/4"                 |
| FH 100TG      | 1"                   |
| FH 125TG      | 1 1/4"               |
| FH 150TG      | 1 1/2"               |
| FH150X15X1RTG | 1 1/2" x 1 1/2" x 1" |
| FH 200TG      | 2"                   |
| FH 200X2X1RTG | 2" x 2" x 1"         |
| FH 250TG      | 2 1/2"               |
| FH 300TG      | 3"                   |
| FH 400TG      | 4"                   |
| FH 600TG      | 6"                   |

## 90° ELBOW (FIPT x FIPT)



|              |        |
|--------------|--------|
| FH 0125X90EG | 1/8"   |
| FH 025X90EG  | 1/4"   |
| FH 0375X90EG | 3/8"   |
| FH 05X90EG   | 1/2"   |
| FH 075X90EG  | 3/4"   |
| FH 100X90EG  | 1"     |
| FH 125X90EG  | 1 1/4" |
| FH 150X90EG  | 1 1/2" |
| FH 200X90EG  | 2"     |
| FH 250X90EG  | 2 1/2" |
| FH 300X90EG  | 3"     |
| FH 400X90EG  | 4"     |
| FH 600X90EG  | 6"     |

## 45° ELBOW (FIPT x FIPT)



|             |        |
|-------------|--------|
| FH 05X45EG  | 1/2"   |
| FH 075X45EG | 3/4"   |
| FH 100X45EG | 1"     |
| FH 125X45EG | 1 1/4" |
| FH 150X45EG | 1 1/2" |
| FH 200X45EG | 2"     |
| FH 300X45EG | 3"     |

## 90° STREET ELBOW (FIPT x MIPT)



|               |        |
|---------------|--------|
| FH 0125X90SEG | 1/8"   |
| FH 025X90SEG  | 1/4"   |
| FH 0375X90SEG | 3/8"   |
| FH 05X90SEG   | 1/2"   |
| FH 075X90SEG  | 3/4"   |
| FH 100X90SEG  | 1"     |
| FH 125X90SEG  | 1 1/4" |
| FH 150X90SEG  | 1 1/2" |
| FH 200X90SEG  | 2"     |

Fittings are also available in Black Steel.

## 45° STREET ELBOW (FIPT x MIPT)



|              |        |
|--------------|--------|
| FH 025X45SEG | 1/4"   |
| FH 05X45SEG  | 1/2"   |
| FH 100X45SEG | 1"     |
| FH 125X45SEG | 1 1/4" |
| FH 150X45SEG | 1 1/2" |

## CROSS (FIPT x FIPT x FIPT x FIPT)



|           |        |
|-----------|--------|
| FH 100CRG | 1"     |
| FH 125CRG | 1 1/4" |
| FH 150CRG | 1 1/2" |
| FH 200CRG | 2"     |
| FH 300CRG | 3"     |
| FH 400CRG | 4"     |

## UNION (FIPT x FIPT)



|          |        |
|----------|--------|
| FH 05UG  | 1/2"   |
| FH 075UG | 3/4"   |
| FH 100UG | 1"     |
| FH 125UG | 1 1/4" |
| FH 150UG | 1 1/2" |
| FH 200UG | 2"     |
| FH 300UG | 3"     |

## COUPLER (FIPT x FIPT)



|           |        |
|-----------|--------|
| FH 0125CG | 1/8"   |
| FH 025CG  | 1/4"   |
| FH 0375CG | 3/8"   |
| FH 05CG   | 1/2"   |
| FH 075CG  | 3/4"   |
| FH 100CG  | 1"     |
| FH 125CG  | 1 1/4" |
| FH 150CG  | 1 1/2" |
| FH 200CG  | 2"     |
| FH 250CG  | 2 1/2" |
| FH 300CG  | 3"     |
| FH 400CG  | 4"     |
| FH 500CG  | 5"     |
| FH 600CG  | 6"     |

## REDUCING COUPLING (FIPT x FIPT)



|                |                 |
|----------------|-----------------|
| FH 025X0125RCG | 1/4" x 1/8"     |
| FH 05X025RCG   | 1/2" x 1/4"     |
| FH 05X0375RCG  | 1/2" x 3/8"     |
| FH 075X05RCG   | 3/4" x 1/2"     |
| FH 100X075RCG  | 1" x 3/4"       |
| FH 125X1RCG    | 1 1/4" x 1"     |
| FH 150X1RCG    | 1 1/2" x 1"     |
| FH 150X125RCG  | 1 1/2" x 1 1/4" |
| FH 200X125RCG  | 2" x 1 1/4"     |
| FH 200X150RCG  | 2" x 1 1/2"     |
| FH 250X2RCG    | 2 1/2" x 2"     |
| FH 300X2RCG    | 3" x 2"         |

**PART # SIZE (inches)**

**REDUCING BUSHING (MIPT x FIPT)**



|                |                 |
|----------------|-----------------|
| FH 025X0125BG  | 1/4" x 1/8"     |
| FH 0375X0125BG | 3/8" x 1/8"     |
| FH 0375X025BG  | 3/8" x 1/4"     |
| FH 05X025BG    | 1/2" x 1/4"     |
| FH 05X0375BG   | 1/2" x 3/8"     |
| FH 075X0125BG  | 3/4" x 1/8"     |
| FH 075X025BG   | 3/4" x 1/4"     |
| FH 075X0375BG  | 3/4" x 3/8"     |
| FH 075X05BG    | 3/4" x 1/2"     |
| FH 100X025BG   | 1" x 1/4"       |
| FH 100X05BG    | 1" x 1/2"       |
| FH 100X075BG   | 1" x 3/4"       |
| FH 125X1BG     | 1 1/4" x 1"     |
| FH 150X1BG     | 1 1/2" x 1"     |
| FH 150X125BG   | 1 1/2" x 1 1/4" |
| FH 200X1BG     | 2" x 1"         |
| FH 200X125BG   | 2" x 1 1/4"     |
| FH 200X150BG   | 2" x 1 1/2"     |
| FH 250X2BG     | 2 1/2" x 2"     |
| FH 300X2BG     | 3" x 2"         |
| FH 300X25BG    | 3" x 2 1/2"     |
| FH 400X2BG     | 4" x 2"         |
| FH 400X3BG     | 4" x 3"         |
| FH 600X4BG     | 6" x 4"         |

**CAP (FIPT)**



|            |        |
|------------|--------|
| FH 0125CAG | 1/8"   |
| FH 025CAG  | 1/4"   |
| FH 0375CAG | 3/8"   |
| FH 05CAG   | 1/2"   |
| FH 075CAG  | 3/4"   |
| FH 100CAG  | 1"     |
| FH 125CAG  | 1 1/4" |
| FH 150CAG  | 1 1/2" |
| FH 200CAG  | 2"     |
| FH 300CAG  | 3"     |
| FH 400CAG  | 4"     |
| FH 600CAG  | 6"     |

**PLUG (MIPT)**



|           |        |
|-----------|--------|
| FH 025PG  | 1/4"   |
| FH 0375PG | 3/8"   |
| FH 05PG   | 1/2"   |
| FH 075PG  | 3/4"   |
| FH 100PG  | 1"     |
| FH 125PG  | 1 1/4" |
| FH 150PG  | 1 1/2" |
| FH 200PG  | 2"     |

**PART # SIZE (inches)**

**NIPPLE (MIPT x MIPT)**



|             |                 |
|-------------|-----------------|
| FH 0125CNG  | 1/8" x close    |
| FH 0125X2NG | 1/8" x 2"       |
| FH 025CNG   | 1/4" x close    |
| FH 025X2NG  | 1/4" x 2"       |
| FH 025X3NG  | 1/4" x 3"       |
| FH 025X4NG  | 1/4" x 4"       |
| FH 0375CNG  | 3/8" x close    |
| FH 0375X2NG | 3/8" x 2"       |
| FH 05CNG    | 1/2" x close    |
| FH 05X25NG  | 1/2" x 2 1/2"   |
| FH 075CNG   | 3/4" x close    |
| FH 075X25NG | 3/4" x 2 1/2"   |
| FH 075X6NG  | 3/4" x 6"       |
| FH 100CNG   | 1" x close      |
| FH 100X2NG  | 1" x 2"         |
| FH 100X25NG | 1" x 2 1/2"     |
| FH 100X3NG  | 1" x 3"         |
| FH 100X4NG  | 1" x 4"         |
| FH 100X6NG  | 1" x 6"         |
| FH 100X8NG  | 1" x 8"         |
| FH 100X10NG | 1" x 10"        |
| FH 100X12NG | 1" x 12"        |
| FH 125CNG   | 1 1/4" x close  |
| FH 125X2NG  | 1 1/4" x 2"     |
| FH 125X35NG | 1 1/4" x 3 1/2" |
| FH 125X4NG  | 1 1/4" x 4"     |
| FH 125X5NG  | 1 1/4" x 5"     |
| FH 125X6NG  | 1 1/4" x 6"     |
| FH 150CNG   | 1 1/2" x close  |
| FH 150X2NG  | 1 1/2" x 2"     |
| FH 150X3NG  | 1 1/2" x 3"     |
| FH 150X4NG  | 1 1/2" x 4"     |
| FH 150X6NG  | 1 1/2" x 6"     |
| FH 200CNG   | 2" x close      |
| FH 200X3NG  | 2" x 3"         |
| FH 200X4NG  | 2" x 4"         |
| FH 200X6NG  | 2" x 6"         |
| FH 200X8NG  | 2" x 8"         |
| FH 250CNG   | 2 1/2" x close  |
| FH 250X35NG | 2 1/2" x 3 1/2" |
| FH 250X6NG  | 2 1/2" x 6"     |
| FH 300CNG   | 3" x close      |
| FH 300x4NG  | 3" x 4"         |
| FH 300x45NG | 3" x 4 1/2"     |
| FH 400CNG   | 4" x close      |
| FH 400X4NG  | 4" x 4"         |
| FH 400X10NG | 4" x 10"        |
| FH 600CNG   | 6" x close      |



## KAMLOX FITTINGS

|  | PART # | SIZE (inches) |
|--|--------|---------------|
|--|--------|---------------|

### TYPE A - MALE x FIPT



|           |        |
|-----------|--------|
| DC075A-AL | 3/4"   |
| DC100A-AL | 1"     |
| DC125A-AL | 1 1/4" |
| DC150A-AL | 1 1/2" |
| DC200A-AL | 2"     |
| DC300A-AL | 3"     |
| DC400A-AL | 4"     |
| DC600A-AL | 6"     |

### TYPE B - FEMALE x MIPT



|           |        |
|-----------|--------|
| DC075B-AL | 3/4"   |
| DC100B-AL | 1"     |
| DC125B-AL | 1 1/4" |
| DC150B-AL | 1 1/2" |
| DC200B-AL | 2"     |
| DC300B-AL | 3"     |
| DC400B-AL | 4"     |
| DC600B-AL | 6"     |

### TYPE C - FEMALE x BARB



|           |        |
|-----------|--------|
| DC075C-AL | 3/4"   |
| DC100C-AL | 1"     |
| DC125C-AL | 1 1/4" |
| DC150C-AL | 1 1/2" |
| DC200C-AL | 2"     |
| DC300C-AL | 3"     |
| DC400C-AL | 4"     |
| DC600C-AL | 6"     |

### TYPE D - FEMALE x FIPT



|           |        |
|-----------|--------|
| DC075D-AL | 3/4"   |
| DC100D-AL | 1"     |
| DC125D-AL | 1 1/4" |
| DC150D-AL | 1 1/2" |
| DC200D-AL | 2"     |
| DC300D-AL | 3"     |
| DC400D-AL | 4"     |
| DC600D-AL | 6"     |

### DUST PLUG



|            |    |
|------------|----|
| DC200DP-AL | 2" |
| DC300DP-AL | 3" |
| DC400DP-AL | 4" |
| DC600DP-AL | 6" |

|  | PART # | SIZE (inches) |
|--|--------|---------------|
|--|--------|---------------|

### TYPE E - MALE x BARB



|           |        |
|-----------|--------|
| DC075E-AL | 3/4"   |
| DC100E-AL | 1"     |
| DC125E-AL | 1 1/4" |
| DC150E-AL | 1 1/2" |
| DC200E-AL | 2"     |
| DC300E-AL | 3"     |
| DC400E-AL | 4"     |
| DC600E-AL | 6"     |

### TYPE F - MALE x MIPT



|            |         |
|------------|---------|
| DC075F-AL  | 3/4"    |
| DC100F-AL  | 1"      |
| DC125F-AL  | 1 1/4"  |
| DC150F-AL  | 1 1/2"  |
| DC200F-AL  | 2"      |
| DC300F-AL  | 3"      |
| DC400F-AL  | 4"      |
| DC4030F-AL | 4" x 3" |
| DC600F-AL  | 6"      |

### TYPE DC - FEMALE DUST CAP



|            |        |
|------------|--------|
| DC075DC-AL | 3/4"   |
| DC100DC-AL | 1"     |
| DC125DC-AL | 1 1/4" |
| DC150DC-AL | 1 1/2" |
| DC200DC-AL | 2"     |
| DC300DC-AL | 3"     |
| DC400DC-AL | 4"     |
| DC600DC-AL | 6"     |

### KAMLOX GASKETS



|           |        |
|-----------|--------|
| DC075F-AL | 3/4"   |
| DC100F-AL | 1"     |
| DC125F-AL | 1 1/4" |
| DC150F-AL | 1 1/2" |
| DC200F-AL | 2"     |
| DC300F-AL | 3"     |
| DC400F-AL | 4"     |
| DC600F-AL | 6"     |

## CLAMPS

### MIKALOR SUPRA CLAMPS

| PART #     | NOMINAL SIZE | MINIMUM SIZE | MAXIMUM SIZE |
|------------|--------------|--------------|--------------|
| QG M048051 |              | 1.9"         | 2.0"         |
| QG M052055 | 2"           | 2.0"         | 2.2"         |
| QG M056059 |              | 2.2"         | 2.3"         |
| QG M074079 |              | 2.9"         | 3.1"         |
| QG M080085 | 3"           | 3.4"         | 3.6"         |
| QG M098103 |              | 3.9"         | 4.1"         |
| QG M104112 |              | 4.1"         | 4.4"         |
| QG M113121 | 4"           | 4.4"         | 4.8"         |
| QG M122130 |              | 4.8"         | 5.1"         |
| QG M131139 |              | 5.2"         | 5.5"         |
| QG M140148 | 5"           | 5.5"         | 5.8"         |
| QG M149161 |              | 5.9"         | 6.3"         |
| QG M162174 | 6"           | 6.4"         | 6.9"         |



### DOUBLE BOLT CLAMPS

| PART #      | NOMINAL SIZE | MINIMUM SIZE | MAXIMUM SIZE |
|-------------|--------------|--------------|--------------|
| QG MD074085 | 3"           | 2.9"         | 3.3"         |
| QG MD095112 | 4"           | 3.7"         | 4.4"         |
| QG MD115139 | 5"           | 4.5"         | 5.5"         |
| QG MD135161 | 6"           | 6.3"         | 6.3"         |



### MARINE GRADE ALL STAINLESS STEEL GEAR CLAMPS

| PART #    | NOMINAL SIZE | MINIMUM SIZE | MAXIMUM SIZE |
|-----------|--------------|--------------|--------------|
| QG HF04SS |              | 7/32"        | 5/8"         |
| QG HF06SS |              | 7/16"        | 25/32"       |
| QG HF08SS | 1/2"         | 1/2"         | 29/32"       |
| QG HF10SS |              | 9/16"        | 1 1/16"      |
| QG HF12SS | 3/4"         | 11/16"       | 1 1/4"       |
| QG HF16SS | 1"           | 3/4"         | 1 1/2"       |
| QG HF20SS | 1 1/4"       | 13/16"       | 1 3/4"       |
| QG HF24SS | 1 1/2"       | 1 1/16"      | 2"           |
| QG HF32SS | 2"           | 1 9/16"      | 2 1/2"       |
| QG HF36SS |              | 1 13/16"     | 2 3/4"       |
| QG HF48SS | 3"           | 2 9/16"      | 3 1/2"       |
| QG HF64SS | 4"           | 3 9/16"      | 4 1/2"       |



### STAINLESS STEEL 5/8" PUNCH LOCK CLAMPS

| PART #   | INSIDE DIAMETER | APPLICATION          |
|----------|-----------------|----------------------|
| QG CP20S | 5"              | for 4" & 4 1/2" Hose |
| QG CP24S | 6"              | for 5" Hose          |
| QG CP28S | 7"              | for 6" Hose          |
| QG CP32S | 8"              | for 8" Hose          |
| QG CP24S | 10"             | for 8" HilcoFlex     |
| DC P38   | Punch Lock Tool |                      |



### TIGERFLEX SPIRAL CLAMPS

| PART #    | SIZE |
|-----------|------|
| EG SDBC2  | 2"   |
| EG SDBC3  | 3"   |
| EG SDBC4  | 4"   |
| EG SDBC5  | 5"   |
| EG SDBC6  | 6"   |
| EG SDBC8  | 8"   |
| EG SDBC10 | 10"  |
| EG SDBC12 | 12"  |



### OETIKER (ZINC PLATED EAR) CLAMPS

| PART #    | SIZE                    |
|-----------|-------------------------|
| QG 256R   | 3/4" Poly Pipe          |
| QG 271R   | 3/4" CSA (75 PSI) Poly  |
| QG 286R   | 3/4" CSA (100 PSI) Poly |
| QG 331R   | 1" Poly Pipe            |
| QG 346    | 1" CSA (75 PSI) Poly    |
| QG 1098   | Standard Pinchers       |
| QG 1098LH | Long Handle Pinchers    |



### THREE PART HOSE CLAMP

| PART #   | SIZE |
|----------|------|
| GDM3MCS5 | 5"   |
| GDM3MCS6 | 6"   |
| GDM3MCS8 | 8"   |



## PUMP DISCHARGE ADAPTERS



Wade Knob Style



Wade Ring Lock

| PART #          | MIPT SIZE | COUPLER SIZE | COUPLER TYPE    |
|-----------------|-----------|--------------|-----------------|
| BE 11-2MXF15X2  | 1 ½"      | 2"           | Wade Knob Style |
| BE 11-2MXF15X3  | 1 ½"      | 3"           | Wade Knob Style |
| BE 11-2MXF2X2   | 2"        | 2"           | Wade Knob Style |
| BE 11-2MXF2X3   | 2"        | 3"           | Wade Knob Style |
| BE 11-2MXF2X4   | 2"        | 4"           | Wade Knob Style |
| BE 11-2MXF3X3   | 3"        | 3"           | Wade Knob Style |
| BE 11-2MXF3X4   | 3"        | 4"           | Wade Knob Style |
| BE 11-2MXF3X5   | 3"        | 5"           | Wade Knob Style |
| BE 11-2MXF4X4   | 4"        | 4"           | Wade Knob Style |
| BE 11-2MXF4X5   | 4"        | 5"           | Wade Knob Style |
| BE 11-2MXF4X6   | 4"        | 6"           | Wade Knob Style |
| BE 11-2MXF5X4   | 5"        | 4"           | Wade Knob Style |
| BE 11-2MXF5X5   | 5"        | 5"           | Wade Knob Style |
| BE 11-2MXF5X6   | 5"        | 6"           | Wade Knob Style |
| BE 11-2MXF6X4   | 6"        | 4"           | Wade Knob Style |
| BE 11-2MXF6X5   | 6"        | 5"           | Wade Knob Style |
| BE 11-2MXF6X6   | 6"        | 6"           | Wade Knob Style |
| BE 11-2MXF4X5RL | 4"        | 5"           | Wade Ring Lock  |
| BE 11-2MXF4X6RL | 4"        | 6"           | Wade Ring Lock  |
| BE 11-2MXF4X8RL | 4"        | 8"           | Wade Ring Lock  |
| BE 11-2MXF5X6RL | 5"        | 6"           | Wade Ring Lock  |
| BE 11-2MXF5X8RL | 5"        | 8"           | Wade Ring Lock  |
| BE 11-2MXF6X6RL | 6"        | 6"           | Wade Ring Lock  |
| BE 11-2MXF6X8RL | 6"        | 8"           | Wade Ring Lock  |
| GA BMTS55       | 5"        | 5" (133 HK)  | Bauer HK (Ball) |
| GA BMTS65       | 6"        | 5" (133 HK)  | Bauer HK (Ball) |

If your pump is placed at an awkward angle to your mainline, try using our discharge hose and fittings to create a wide gentle turn. Please support your hose for safety and added life span.

# BAUER ALUMINUM COUPLERS

Bauer HK Coupler for suction allows up to 30° articulation so attaching you pumps suction is fast, easy and flexible. The MIPT x Socket threads directly into your pump while the Ball x Tube with Locking Lever provide an air tight connection to the flexible suction line. A Bauer Suction Assembly includes the gaskets and locking lever.

## BAUER SUCTION ASSEMBLIES

| PART #                | MIPT SIZE | TUBE SIZE |
|-----------------------|-----------|-----------|
| <b>LONG ASSEMBLY</b>  |           |           |
| GA BSA4X5L*           | 4"        | 5"        |
| GA BSA4X6L*           | 4"        | 6"        |
| GA BSA5X6L*           | 5"        | 6"        |
| GA BSA5X8L*           | 5"        | 8"        |
| GA BSA6X8L*           | 6"        | 8"        |
| <b>SHORT ASSEMBLY</b> |           |           |
| GA BSA2X2             | 2"        | 2"        |
| GA BSA2X3             | 2"        | 3"        |
| GA BSA2X4             | 2"        | 4"        |
| GA BSA25X3            | 2 ½"      | 3"        |
| GA BSA3X3             | 3"        | 3"        |
| GA BSA3X4             | 3"        | 4"        |
| GA BSA4X4             | 4"        | 4"        |
| GA BSA4X5             | 4"        | 5"        |
| GA BSA4X6             | 4"        | 6"        |
| GA BSA5X5             | 5"        | 5"        |
| GA BSA5X6             | 5"        | 6"        |
| GA BSA5X8             | 5"        | 8"        |
| GA BSA6X6             | 6"        | 6"        |
| GA BSA6X8             | 6"        | 8"        |

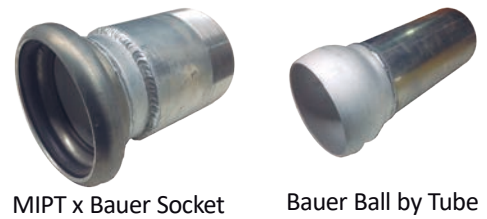
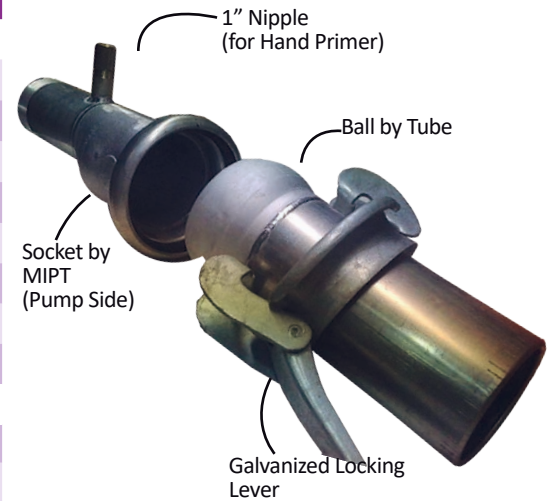
*NOTE: Made out of Heavywall Tubing.*

## BAUER MIPT x SOCKET

| PART #                           | MIPT SIZE | TUBE SIZE |
|----------------------------------|-----------|-----------|
| <b>LONG MIPT x BAUER SOCKET</b>  |           |           |
| GA BSAS45L*                      | 4"        | 5"        |
| GA BSAS46L*                      | 4"        | 6"        |
| GA BSAS55L*                      | 5"        | 5"        |
| GA BSAS56L*                      | 5"        | 6"        |
| GA BSAS58L*                      | 5"        | 8"        |
| GA BSAS65L*                      | 6"        | 5"        |
| GA BSAS66L*                      | 6"        | 6"        |
| GA BSAS68L*                      | 6"        | 8"        |
| <b>SHORT MIPT x BAUER SOCKET</b> |           |           |
| GA BSAS22                        | 2"        | 2"        |
| GA BSAS23                        | 2"        | 3"        |
| GA BSAS253                       | 2 ½"      | 3"        |
| GA BSAS33                        | 3"        | 3"        |
| GA BSAS34                        | 3"        | 4"        |
| GA BSAS35                        | 3"        | 5"        |
| GA BSAS44                        | 4"        | 4"        |
| GA BSAS45                        | 4"        | 5"        |
| GA BSAS46                        | 4"        | 6"        |
| GA BSAS55                        | 5"        | 5"        |
| GA BSAS56                        | 5"        | 6"        |
| GA BSAS58                        | 5"        | 8"        |
| GA BSAS66                        | 6"        | 6"        |
| GA BSAS68                        | 6"        | 8"        |

\* = with 1" nipple (mipt) for hand primer

## Bauer Aluminum Suction Assembly



See **page 80** for Replacement Gaskets

## BAUER BALL x TUBE

| PART #   | BALL SIZE | TUBE SIZE |
|----------|-----------|-----------|
| GA BBT22 | 2"        | 2"        |
| GA BBT33 | 3"        | 3"        |
| GA BBT44 | 4"        | 4"        |
| GA BBT54 | 5"        | 4"        |
| GA BBT55 | 5"        | 5"        |
| GA BBT56 | 5"        | 6"        |
| GA BBT65 | 6"        | 5"        |
| GA BBT66 | 6"        | 6"        |
| GA BBT68 | 6"        | 8"        |
| GA BBT88 | 8"        | 8"        |

## TIGERFLEX SUCTION HOSE

| PART #   | SIZE (I.D.) | SERIES | BENDING RADIUS |
|----------|-------------|--------|----------------|
| EG F075  | 3/4"        | F      | 3"             |
| EG K125  | 1 ¼"        | K*     | 4"             |
| EG K150  | 1 ½"        | K*     | 5"             |
| EG K200  | 2"          | K*     | 7"             |
| EG W300  | 3"          | W      | 6"             |
| EG W400  | 4"          | W      | 8"             |
| EG W500  | 5"          | W      | 12"            |
| EG W600  | 6"          | W      | 14"            |
| EG W800  | 8"          | W      | 24"            |
| EG W1000 | 10"         | W      | 39"            |



Tigerflex Series W Suction Hose

Tigerflex Series K Suction Hose

\* Series K Tigerflex may also be used for discharge for pressures below 65 PSI.

See page:

**66** for Aluminum Irrigation Tubing  
**90** for Tigerflex Clamps



## SOIL MOISTURE SENSORS

ConnectedCrops™ advanced wireless technology empowers the grower to head off these potential problems, and make timely management decisions that maximize their return on investment. The Weather Station gathers key weather and soil moisture data from in-field locations and transmits it in real time to your handheld smartphone, as well as to the ConnectedCrops Mobile App loaded right on your device.

Having the power of this information takes much of the 'guesswork' out of so many decisions at the field level. Temperature Inversion, Soil Moisture Levels, Frost Prevention, Irrigation Scheduling, Growing Degree Day Data, and more can all be managed and manipulated so as to maximize the returns from your irrigation scheduling, frost prevention equipment, integrated pest management monitoring, and timeliness of field operations.



### CONNECTED CROPS

| PART #  | MODEL/DESCRIPTION          |
|---------|----------------------------|
| EDCCST  | Connected Crops Station    |
| EDCCSMS | Soil Moisture Sensor       |
| EDCCTS1 | 1 Metre Temperature Sensor |

## IRROMETER

Irrrometer has been in business since 1951, manufacturing soil moisture measuring, controlling and sampling instruments used for scheduling irrigation.

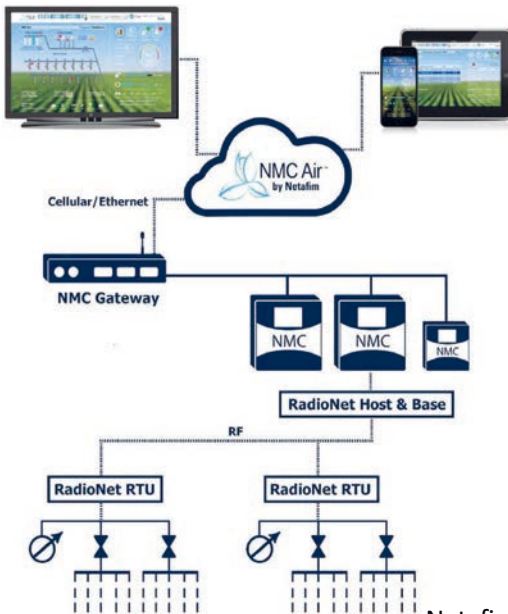
The Tensionmeter, consisting of a sealed water filled tube equipped with a social vacuum gauge and porous tip that is installed in the ground at desired root zone depths. In dry soil, water is drawn out of the instrument, reducing the water volume in the instrument, creating a partial vacuum which is registered on the gauge.



### IRROMETER

| PART #                           | SIZE (INCHES)          |
|----------------------------------|------------------------|
| <b>MODEL R - LOAM &amp; CLAY</b> |                        |
| AK 106                           | 6"                     |
| AK 112                           | 12"                    |
| AK 118                           | 18"                    |
| AK 124                           | 24"                    |
| <b>MODEL LT - SANDY SOILS</b>    |                        |
| AK 506                           | 6"                     |
| AK 512                           | 12"                    |
| AK 518                           | 18"                    |
| AK 524                           | 24"                    |
| AK1001                           | Irrrometer Service Kit |

# NETAFIM CONTROLLERS



## NMC AIR™



### THE CLOUD BASED SOFTWARE FOR NMC IRRIGATION CONTROLLERS

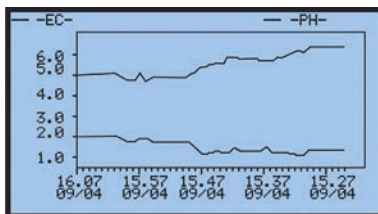
This software from Netafim provides a user with the ability operate and monitor the NMC Irrigation Controllers from anywhere at anytime. Compatible with all NMC Pro, DC or Junior irrigation controllers.

#### Product Features:

- Real time in-field operation
- Check your system quickly
- Provides water and nutrient use traceability
- Connectivity via web or mobile access
- High end user experience

Netafim's **NMC Stand-Alone Controllers** for Irrigation and Fertigation are designed to extend your water and fertilizer management skills to the field or greenhouse. Controllers are available in two models, the **NMC-64** (controls up to 64 valves) and the **NMC - Junior** (controls up to 15 valves).

The simplicity of the control system and its capability to record data, allows you to repeat and modify your scheduling, assuring maximum crop output, and create a logbook of alarms and events.



### NMC Controller Hardware & Software Specifications

#### Controls:

- Up to 64 Valves (64)
- Up to 15 Valves (Junior)
- Open multiple valves
- Multiple Pumps
- Multiple Filter Flushing
- Pres. Sustaining Valve
- Multiple Fert. Pumps
- Fert. Booster Pumps
- Fert. Tank Valves
- Fertilizer Agitation
- Cooling Systems
- Misting Systems
- Alarm Device

#### Monitors:

- Water Flow Meters
- Fertilizer Flow Meters
- Temperature Sensors
- Humidity Sensors
- Weather Station Data
- EC & pH Sensor
- Conditional Inputs

#### Features:

- Expandable Input & Output boards (64)
- Multiple Pump Control
- 10 Programs (64)
- 15 Programs (Jun.)
- Multiple Fert. Programs
- 60 Multiple Program Starts (64)
- 6 Multiple Program Starts (Jun.)
- Logs all sensor data
- Large Graphic Display
- Battery Backup
- Surge Protection

The NMC Controllers are designed for small to large applications. Up to 50 controllers may be networked and presented on a PC. Multiple options exist for linking to an office PC (wire, telephone or radio). Exclusive to the NMC, is the Memory Key Program Back-Up; all programs are backed up to key for safe storage.

# TWIG-V WIRELESS AUTOMATION SYSTEM

The purpose of the TWIG® Wireless Automation is to turn irrigation valves on and off, simply and reliably. It eliminates troublesome wires, complicated controls, and impractical features that cause other automation systems to be quickly abandoned. With the ability to control up to 200 valves, the Master Control system (Twig-MC) allows you to fully control your pump and remotely operate your irrigation system, right from your mobile device.



Operated fully through your own mobile device's iOS or Android App, the **TWIG-MC** is the "brain" of the TWIG wireless system.

- Specs:**
- Control up to 200 valves
  - 1 flow meter input
  - 2 pump start contacts



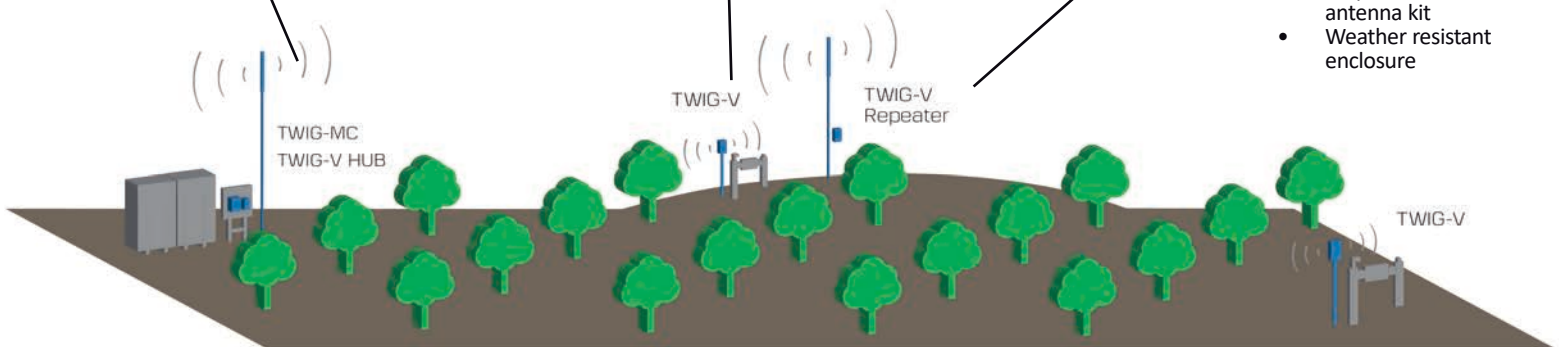
The **TWIG-V** turns valves on and off at the command of the TWIG-MC.

- Specs:**
- Can operate 1-2 valves independently
  - Up to 100 TWIG-V devices in a network
  - Bluetooth setup via TWIG-V mobile app



The **TWIG-V Repeater** creates a sub-network of TWIG-V radios with better signals by bridging obstacles that might block radio communications.

- Specs:**
- Up to 8 Repeaters in one TWIG-V network
  - Requires external antenna kit
  - Weather resistant enclosure



# LOGIC PLUS S: TWO WIRE CONTROLLER



2-Wire Station Controller



Handheld Programmer



Receiver

**LogicPlus S** is the next advancement in irrigation technology, providing an easy to install, use and maintain two-wire control system.

- 42 or 128 station capability
- 8-16 programs and start times per program
- Allows for programming the in-field receivers at the controller
- 100-240 VAC 50/60 Hz input
- Operate up to 8 valves at once
- Solar power capable

| PART #   | DESCRIPTION                          |
|----------|--------------------------------------|
| ORPL42SC | Logic Plus 2-wire Station Controller |
| ORLPHRP  | Handheld Programmer for Receiver     |
| ORLPRP   | Logic Plus Receiver                  |
| ORLPSPDF | Logic Surge Protector                |

# RAIN BIRD CONTROLLERS



## ESP-LXIVM CONTROL SYSTEM

- Used for applications with long wire runs and/or high station counts
- Only for use with IVM solenoids and 2-wire paths
- Allows for 2-way communication to solenoids for easy troubleshooting
- Sensor and output devices are available



| PART #       | DESCRIPTION                             |
|--------------|---|
| AX ESPLXIVM  | Two-wire controller; up to 60 stations  |
| AX ESPLXIVMP | Two-wire controller; up to 240 stations |
| AX LXIVMSOL  | Two-wire IVM Solenoid                   |

## ESP LX CONTROLLER

- Can be used with conventional wiring up to 48 stations
- Can be used with decoders and two-wire paths; up to 200 stations
- Sensor devices available



| PART #        | DESCRIPTION                                     |
|---------------|---|
| AX ESPLX12MEF | 12 Station Outdoor Base with Flow               |
| AX ESPLX8ME   | 8 Station Modular Outdoor Controller            |
| AX ESPLXMOD12 | 12 Station Module                               |
| AX ESPLXD     | 50 Station Decoder Controller                   |
| AX ESPLXDSM75 | 75 Station Expansion Module for LXD Controllers |

## ESP-ME3 CONTROLLER

- Used for conventional wiring from 4-22 stations
- Wi-Fi enabled with the addition of a LNK2WIFI module



| PART #        | DESCRIPTION                          |
|---------------|--------------------------------------|
| AX ESP4ME3    | Indoor/Outdoor Controller with Wi-Fi |
| AX LNK2WIFI   | Wi-Fi Module for Controllers         |
| AX ESP-MOD3   | Three Station Module                 |
| AX ESP-MODME6 | Six Station Module                   |

## BATTERY OPERATED CONTROLLERS

- Used when power is not available
- Be sure to switch solenoids on valve to DC latching

### ESP-9V BATTERY OPERATED CONTROLLERS



| PART #     | DESCRIPTION                             |
|------------|---|
| AX ESP9V1  | One Station Battery Operated Controller |
| AX ESP9V2  | Two Station Battery Operated Controller |
| AX ESP9V6  | Six Station Battery Operated Controller |
| AX TBOSSOL | Latching Solenoid                       |



### TBOS BATTERY OPERATED CONTROLLERS

| PART #      | DESCRIPTION                             |
|-------------|---|
| AX TBOS-BT1 | One Station Bluetooth Batt. Controller  |
| AX TBOS-BT2 | Two Station Bluetooth Batt. Controller  |
| AX TBOS-BT4 | Four Station Bluetooth Batt. Controller |
| AX TBOSSOL  | Latching Solenoid                       |





# ELECTRIC & PRESSURE REGULATING VALVES



2950M Pilot



Manual Nylon Threaded Valve



Pressure Reducing Electric Nylon Threaded Valve



Manual PVC Slip Valve

Manual Nylon Flanged Valve



Quick Reacting Pressure Relief Angle Valve



Iron Flanged Valve



Pressure Reducing Electric Iron Grooved Valve

## Valve Ordering Guideline

| 61   | Function Code  | Diameter   | Material & End Connection   | Diaphragm   | Spring Colour |
|--|--|--|---|---|---------------|
| <p>B Basic</p> <p>M Manual</p> <p>EL Electric 3-Way</p> <p>MEL Manual Electric 3-Way</p> <p>RC Hydraulic Remote Control</p> <p>PR Pressure Reducing</p> <p>PREL Pressuring Reducing Electric</p> <p>PRRC Pressure Reducing Remote Control</p> <p>PRPS Pressure Reducing/Pressure Sustaining</p> <p>PS Pressure Sustaining</p> <p>PSEL Pressure Sustaining Electric</p> <p>PSNO Presssure Sustaining Normally Open</p> <p>TH Basic Throttling</p> <p>MTH Manual Throttling</p> <p>ELT Electric 3-Way Throttling</p> <p>MELT Manual Electric Throttling</p> <p>ELC Electric 3-Way with Installed Controller</p> <p>QR Quick Reacting Pressure Relief</p> <p>QRL Pressure Sustaining Relief</p> <p>2PR Pressure Reducing 2-Way</p> <p>2PS Pressure Sustaining 2-Way</p> | <p>Nylon:<br/>1", 1½", 2", 323</p> <p>PVC:<br/>3", 4", 6"</p> <p>Iron Flanged:<br/>3", 4", 4" Angle, 6", 6" Angle, 868, 8", 10", 12"</p> <p>Iron Grooved:<br/>2", 323, 3", 3" Angle, 4", 6"</p> <p>Iron Threaded:<br/>1", 1½", 2", 2" Angle, 323, 3", 3" Angle</p> | <p>AN Angle</p> <p>PL Nylon Threaded</p> <p>PLT PVC Threaded</p> <p>PLS PVC Slip</p> <p>IT Iron Threaded</p> <p>IF Iron Flanged</p> <p>IG Iron Grooved</p> | <p>IRON (1"-24")</p> <p>LP (Low Pressure)<br/>Used when dynamic pressure can get below 30 psi</p> <p>HP (High Pressure)<br/>Used when dynamic pressure is always above 30 psi</p> <p>NOTE: Diaphragms for very low pressures (below 15 psi) are also available.</p> | <p>SPRING SELECTION (STANDARD PILOTS)</p> <p>1-4" Valves</p> <p>Y Yellow (7-30 psi)</p> <p>G Green (14-65 psi)</p> <p>R Red (30-90 psi)</p> <p>6" &amp; Larger Valves</p> <p>Y Yellow (8-45 psi)</p> <p>G Green (14-90 psi)</p> <p>R Red (30-130 psi)</p> |               |
| <b>MAXIMUM WORKING PRESSURE</b>  |  |  |   |   |               |
|  |  | <b>MATERIAL</b>  | <b>SIZE</b>   | <b>PSI</b>  |               |
|  |  | Nylon  | 1" to 323   | 145   |               |
|  |  | PVC  | 3" & 4"   | 115   |               |
|  |  | PVC  | 6"  | 145   |               |
|  |  | Iron   | 1" to 24"   | 235   |               |

NOTE: All Electric Valves are standard with 24VAC Solenoids. Other voltages available by special order.

Consult with your Ag Sales Rep before ordering a valve.

## RAIN BIRD ELECTRIC VALVES



| PART #     | SIZE                | MODEL                                    |
|------------|---------------------|--|
| AX075DV    | 3/4", FIPT x FIPT   | DV Series                                |
| AX100DV    | 1", FIPT x FIPT     | DV Series                                |
| AX100DVMB  | 1", MIPT x Barb     | DV Series                                |
| AX100DVF   | 1", FIPT x FIPT     | DV with Flow Control                     |
| AX100PGA   | 1", FIPT x FIPT     | PGA Series                               |
| AX150PGA   | 1 1/2", FIPT x FIPT | PGA Series                               |
| AX200PGA   | 2", FIPT x FIPT     | PGA Series                               |
| AX300BPE   | 3", FIPT x FIPT     | BPE Series                               |
| AX300BPES  | 3", FIPT x FIPT     | BPE Series with Scrubber for dirty water |
| AXPRS-DIAL | Pressure Regulator  | Module for PGA & BPE Valves              |

DV Series Valves feature a plastic body, one piece solenoid with captured plunger, internal & external bleed and 24 VAC. For flows of 2 to 40 gpm with pressure from 15 to 150 psi.



PGA Series Valves feature a plastic body, Globe/Angle configuration, one piece solenoid with captured plunger, internal & external bleed and 24 VAC. For flows of 2 to 150 gpm with pressure from 15 to 150 psi.



BPE Series Valves feature a brass body, globe/angle configuration; one piece solenoid with captured plunger, internal & external bleed and 24 VAC. For flows of 60 to 300 gpm with pressure from 20 to 200 psi.



PRS-DIAL option makes Rain Bird Electric Valve (Series PGA & BPE only) pressure regulating. Fully adjustable from 15 to 100 psi.





**CARSON VALVE BOXES**

| PART #    | DESCRIPTION                                |
|-----------|--|
| EUVE608   | Round, 6" Diam. x 9" Deep                  |
| EUV708    | Round, 8" Diam. x 9" Deep                  |
| EUV910    | Round, 10" Diam. x 10" Deep                |
| EUV14196  | Standard Rectangular, 10" x 15" x 6" Deep  |
| EUV141912 | Standard Rectangular, 10" x 15" x 12" Deep |
| EUV13206  | Jumbo Rectangular, 13" x 20" x 6" Deep     |
| EUV132012 | Jumbo Rectangular, 13" x 20" x 12" Deep    |

All valve boxes include a removable cover.



**ECONOMY VALVE BOXES**

| PART #    | DESCRIPTION                      |
|-----------|----------------------------------|
| AXVE608   | Round 6", single valve x 9" deep |
| AXVE910   | Round, 10", single valve         |
| AXEV14196 | 6" deep standard rectangular box |

**COMMERCIAL VALVE BOXES**

| PART #    | DESCRIPTION                         |
|-----------|-------------------------------------|
| AXV708    | 6" round, single valve, 8" deep     |
| AXV910    | 10" round, locking optional         |
| AXV14196  | 6" deep standard extension with lid |
| AXV141912 | 12" deep standard rectangular       |
| AXV13206  | 6" deep jumbo rectangular           |
| AXV132012 | 12" deep jumbo rectangular          |

**WIRE & VALVE BOXES**

**18 GAUGE MULTI-CONDUCTOR WIRE (500' ROLL)**

| PART #     | NUMBER OF CONDUCTORS |
|------------|----------------------|
| AE18500-2  | 2                    |
| AE18500-3  | 3                    |
| AE18500-4  | 4                    |
| AE18500-5  | 5                    |
| AE18500-6  | 6                    |
| AE18500-7  | 7                    |
| AE18500-8  | 8                    |
| AE18500-10 | 10                   |
| AE18500-12 | 12                   |



**COMMON/CONTROL WIRE (2,500' ROLL)**

| PART #        | COLOUR |
|---------------|--------|
| AE121PE-WHITE | White  |
| AE 141TWU-B   | Black  |
| AE 141TWU-BLU | Blue   |
| AE 141TWU-G   | Green  |
| AE 141TWU-O   | Orange |
| AE 141TWU-R   | Red    |
| AE 141TWU-W   | White  |
| AE 141TWU-Y   | Yellow |



| PART # | COLOUR |
|--------|--------|
|--------|--------|

**3M CONNECTORS & SPLICES**



|       |                            |
|-------|----------------------------|
| AE316 | Red, Wire Connector        |
| AEDBY | Yellow, Direct Bury Splice |
| AEDBR | Red, Direct Bury Splice    |

**KING DRYCONN CONNECTORS**



|      |             |
|------|-------------|
| MBKW | Black/White |
| MBKB | Black/Blue  |

# CHECK VALVES & BACKFLOW PREVENTION

## CONBRACO BRASS BACKFLOW PREVENTERS

| PART # | SIZE |
|--------|------|
|--------|------|

### REDUCED PRESSURE ASSEMBLY



|           |        |
|-----------|--------|
| TF RPA075 | 3/4"   |
| TF RPA100 | 1"     |
| TF RPA150 | 1 1/2" |
| TF RPA200 | 2"     |

### DUAL CHECK VALVE



|           |      |
|-----------|------|
| TF ICV075 | 3/4" |
| TF ICV100 | 1"   |

### PRESSURE VACUUM BREAKER



|           |        |
|-----------|--------|
| TF PVB075 | 3/4"   |
| TF PVB100 | 1"     |
| TF PVB150 | 1 1/2" |
| TF PVB200 | 2"     |

### DOUBLE CHECK VALVE ASSEMBLY



|           |        |
|-----------|--------|
| TF DCA075 | 3/4"   |
| TF DCA100 | 1"     |
| TF DCA150 | 1 1/2" |
| TF DCA200 | 2"     |
| TF DCA400 | 4"     |
| TF DCA600 | 6"     |

## PIERCE CHEMIGATION VALVES

| PART # | SIZE |
|--------|------|
|--------|------|

Chemigation & Backflow Prevention, with inspection port & air vent, Flange by Flange



|            |    |
|------------|----|
| AV 1775-60 | 3" |
| AV 1775-61 | 4" |
| AV 1778-61 | 6" |

Prevent flow of fertilizer, etc. back into pond, well or municipal supply. It is important to check with local authorities for code.

## CHECK VALVES

| PART # | SIZE |
|--------|------|
|--------|------|

Pierce Check Valve, Galvanized Steel, Spring Loaded, Rubber Covered Steel Disc



|            |                      |
|------------|----------------------|
| AV 3X4CVF  | 3" FIPT by 4" FIPT   |
| AV 4X5CVF  | 4" FIPT by 5" FIPT   |
| AV 1753-01 | 6", Flange by Flange |
| AV 1753-02 | 8", Flange by Flange |
| AV 1754-01 | 4", Weldable Ends    |

Berkeley Check Valve Spring Loaded Lever, Steel Disc with O'Ring Seal



|            |                        |
|------------|------------------------|
| FE PB05922 | 2 1/2" FIPT by 3" FIPT |
| FE PB05923 | 3" FIPT by 4" FIPT     |
| FE PB05924 | 4", Flange by FIPT     |
| FE PB05925 | 5", Flange by FIPT     |
| FE PB05926 | 6", Flange by FIPT     |

Val-Matic Swing Flex Check Valve, Series 500 Non-Clog Design - great for Flange by Flange



|           |    |
|-----------|----|
| AG P504-4 | 4" |
|-----------|----|

Cast Iron Wafer Split Disc Style Check Valve



|          |    |
|----------|----|
| TF CVW-3 | 3" |
| TF CVW-4 | 4" |
| TF CVW-5 | 5" |
| TF CVW-6 | 6" |

Brass Check Valve (FIPT x FIPT), Disc Style, Nitrile Buna-N Seal



|            |                      |
|------------|----------------------|
| FH 125BCV  | 1 1/4"               |
| FH 150BCV  | 1 1/2"               |
| FH 200BCV  | 2"                   |
| FH 200BRCV | 2" Bronze Heavy Duty |

PVC Check Valve (FIPT x FIPT) PVC Poppet, EPDM Seal



|          |        |
|----------|--------|
| BA 43937 | 1"     |
| BA 43939 | 1 1/2" |
| BA 43940 | 2"     |

All Brass Swing Check Valve (FIPT x FIPT)



|            |        |
|------------|--------|
| FH 100BSCV | 1"     |
| FH 125BSCV | 1 1/4" |
| FH 150BSCV | 1 1/2" |
| FH 200BSCV | 2"     |
| FH 300BSCV | 3"     |
| FH 400BSCV | 4"     |

## Manual Valves



Brass Gate Valve

### BRASS GATE VALVES

| PART #     | SIZE                    |
|------------|-------------------------|
| DG05GV     | 1/2" FIPT               |
| DG05GV-SW  | 1/2" solder             |
| DG075GV    | 3/4" FIPT               |
| DG075GV-SW | 3/4" solder             |
| DG100GV    | 1" FIPT                 |
| DG125GV    | 1 1/4" FIPT             |
| DG150GV    | 1 1/2" FIPT             |
| DG200GV    | 2" FIPT                 |
| DG200GVHD  | 2" FIPT, heavy duty     |
| DG250GV    | 2 1/2" FIPT             |
| DG250GVHD  | 2 1/2" FIPT, heavy duty |
| DG300GV    | 3" FIPT                 |
| DG400GV    | 4" FIPT                 |



PVC Ball Valves

### ECONOMY PVC BALL VALVE

| PART #     | SIZE        |
|------------|-------------|
| BA0921-05  | 1/2" FIPT   |
| BA0921S-05 | 1/2" SLIP   |
| BA0921-07  | 3/4" FIPT   |
| BA0921S-07 | 3/4" SLIP   |
| BA0921-10  | 1" FIPT     |
| BA0921S-10 | 1" SLIP     |
| BA0921-15  | 1 1/2" FIPT |
| BA0921S-15 | 1 1/2" SLIP |
| BA0921-20  | 2" FIPT     |
| BA0921S-20 | 2" SLIP     |



Brass Ball Valves

### BRASS BALL VALVES - "FULL PORT"

| PART #        | SIZE        |
|---------------|-------------|
| DG05BVB-FP    | 1/2" FIPT   |
| DG075BVB-FP   | 3/4" FIPT   |
| DG075BVB-FPSW | 3/4" solder |
| DG100BVB-FP   | 1" FIPT     |
| DG100BVB-FPSW | 1" solder   |
| DG125BVB-FP   | 1 1/4" FIPT |
| DG150BVB-FP   | 1 1/2" FIPT |
| DG200BVB-FP   | 2" FIPT     |
| DG250BVB-FP   | 2 1/2" FIPT |
| DG300BVB-FP   | 3" FIPT     |



Push on Gate Valve

### NIBCO PUSH ON GATE VALVES

| PART #    | SIZE |
|-----------|------|
| TF619RW-4 | 4"   |
| TF619RW-6 | 6"   |
| TF619RW-8 | 8"   |

## Garden Hose Valves



Brass Boiler Drain

### BOILER DRAINS

| PART #   | DESCRIPTION                                    |
|----------|--|
| DG05GHT  | 1/2" MIPT, brass                               |
| DG075GHT | 3/4" MIPT, brass                               |
| TF74CL12 | 1/2" MIPT Multi-Turn Boiler Drain - heavy duty |
| TF74CL34 | 3/4" MIPT Multi-Turn Boiler Drain - heavy duty |



NIBCO  
Boiler Drain

# rovatti pompe

[www.rovatti.it](http://www.rovatti.it)



We provide our customers with the most advanced pumping solutions both for depth and surface installations and in multiple executions in order to satisfy all your irrigation need with our **MADE IN ITALY QUALITY**



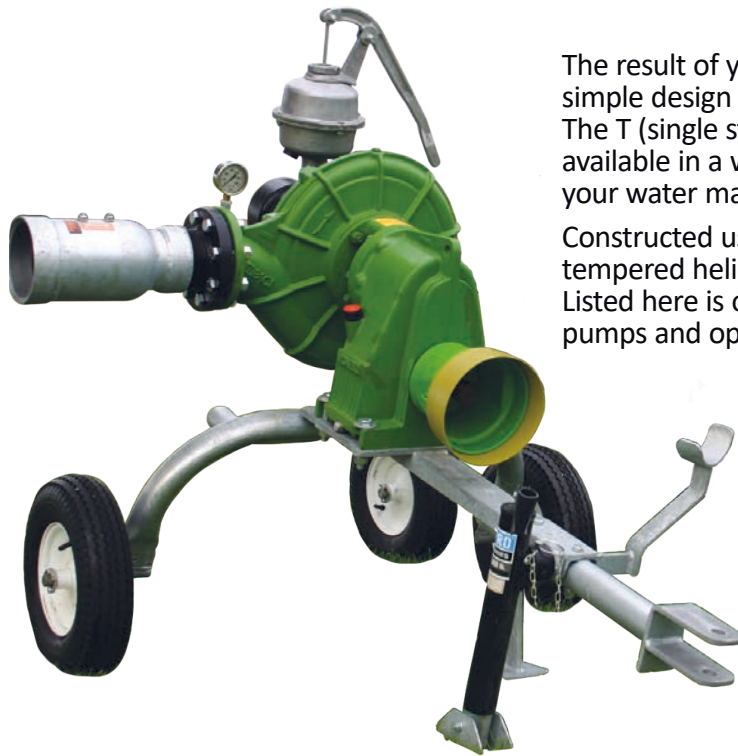
**Just ask us what kind of solution you need!**



## ROVATTI PTO PUMPS



**rovatti pompe**



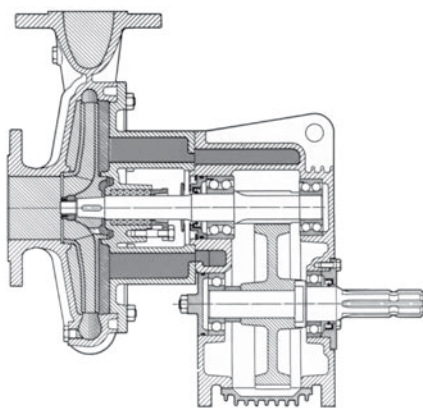
The result of years of experience, Rovatti's time tested, simple design means years of reliability and easy servicing. The T (single stage) & TK series (multi-stage) P.T.O. are available in a wide variety of models and options to suit your water management needs.

Constructed using chromed shafts and case hardened & tempered helicoidal gears means years of reliable service. Listed here is only a very small selection of Rovatti P.T.O. pumps and options.

Our Rovatti P.T.O. Package includes:

- Pump
- Galvanized Trolley with support leg
- P.T.O. Shaft
- Check Valve
- Pressure Gauge
- Wade Rain Hand Primer

It is normal for Pumps with Packing Seals, to drip when operating. If there is 1 drop/sec. at the shaft, everything is OK.



### ROVATTI POWER TAKE OFF PUMP PACKAGE

| PART #           | MODEL     | H.P | P.T.O. |
|------------------|-----------|-----|--------|
| XB T150E540P     | T1-50E    | 30  | 540    |
| XB T240E540P     | T2-40E    | 31  | 540    |
| XB T285E540P     | T2-85E    | 43  | 540    |
| XB T380AE540P    | T3-80AE   | 60  | 540    |
| XB T3110E540P    | T3-110    | 82  | 540    |
| XB T4100E540P    | T4-100E   | 83  | 540    |
| XB T4100E1000P   | T4-100E   | 83  | 1,000  |
| XB T4110E1000P   | T4-110E   | 111 | 1,000  |
| XB T4K1002E1000P | T4K100/2E | 103 | 1,000  |



**rovatti pompe**

## ROVATTI PTO PUMPS

### Pump Troubleshooting

Having problems priming your pump? This is caused by the unwanted entry of air into the pump or suction lines. The usual culprits are: the check valve, the diaphragm in the hand primer, the pump's seal or packing of the suction line.

The first thing to check is the hand primer. Take the primer off the pump, place your hand over the primers intake, and try to depress the handle. If you cannot depress the handle, the hand primer is fine; if not, replace the primer's diaphragm.

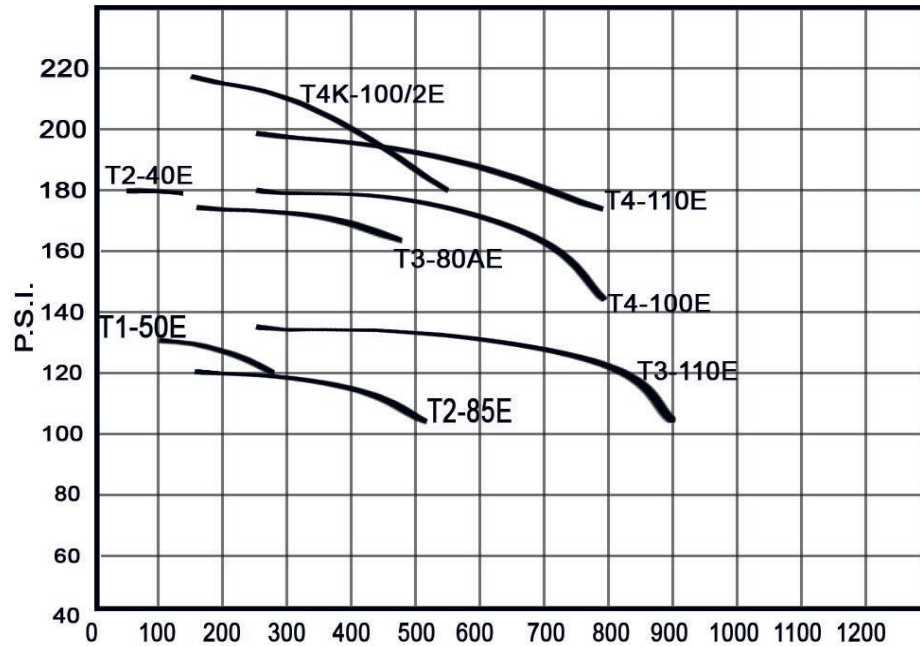
Next, put the primer back on the pump and disconnect the discharge and suction lines. With the aid of a helper, place a flat piece of rubber sheet against the opening of the suction adapter. Now, start priming the pump; if the rubber sheet begins to be sucked into the adapter and remains sucked after you stop priming, the hole is in the suction line.

If the sheet of rubber on the suction adapter did not suck in, get a second piece of rubber sheet and hold it against the opening of the discharge adapter. If both the rubber sheets suck in and stay there when you stop priming, then the problem is with the check valve.

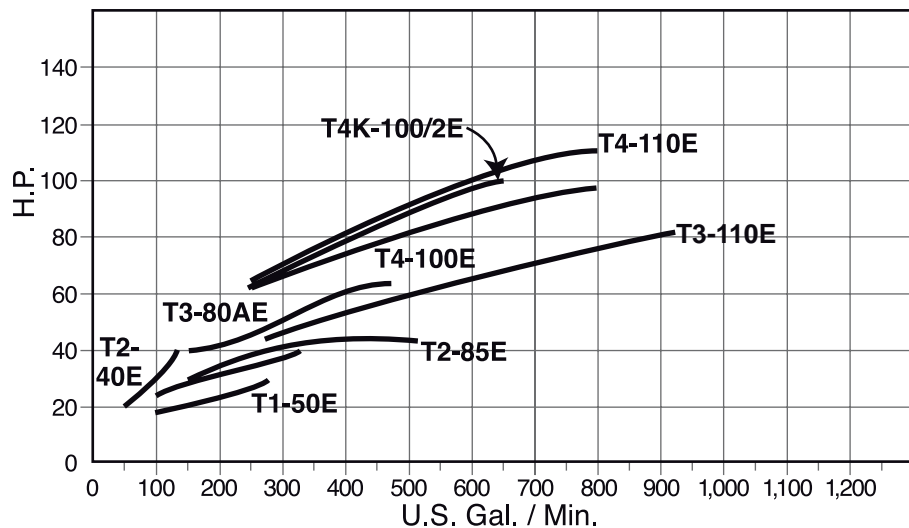
If neither rubber sheets suck in, then the problem lies within the mechanical seal or packing.

Check your suction pipe, Tigerflex tubing, and the condition of any suction fitting gaskets.

Rovatti P.T.O Pumps - Pressure (P.S.I.) x U.S. Gallons per Minute



Rovatti P.T.O Pumps - Horsepower (H.P.) x U.S. Gallons per Minute



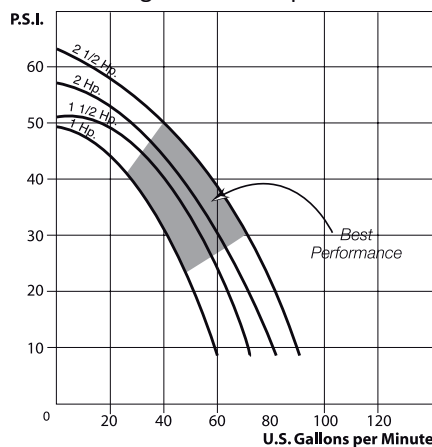
Use only #80-90 Gear Lube in Rovatti P.T.O. Pumps. Part #: EF PGEARLUBE



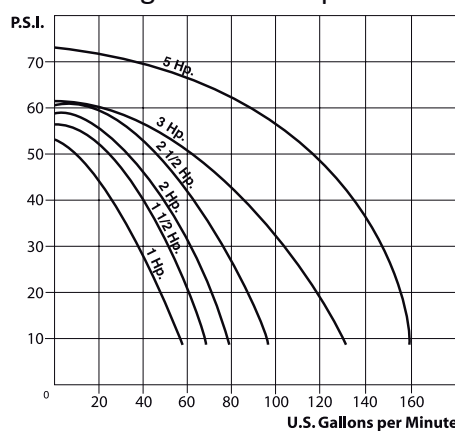
# BERKELEY ELECTRIC PUMPS



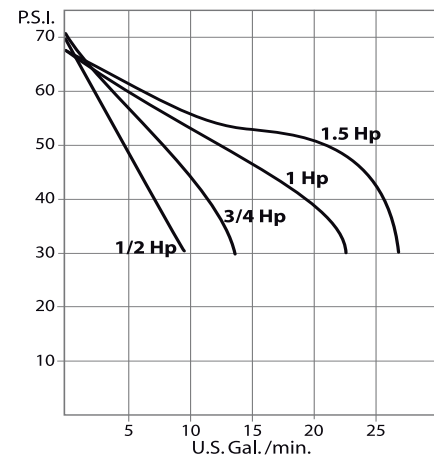
CP "High Head" Pump Series



LTH "High Head" Pump Series



SN Pump Series



CP Series' are general purpose Centrifugal Pumps featuring a heavy duty cast iron construction, Noryl abrasion resistant impellers heavy duty electric motor, and four position discharge.

LTH Series (3 & 5 HP) general purpose fast Self-Priming Centrifugal Pumps featuring a heavy duty cast iron construction, bronze impeller, heavy duty electric motor for continuous duty with capacitor start, and leak proof mechanical seal.

LTH Series (1 to 2.5 HP) are general purpose fast Self-Priming Centrifugal Pumps featuring a rugged cast iron construction, a Noryl impeller, heavy duty electric motor, and precision molded diffuser.

Berkeley's Self-Priming "SN" Series Jet Pumps for shallow wells feature cast iron body, a built in jet, adjustable pressure switch, and Noryl impeller. The "SN" Series provide excellent performance, at a depth of 15.

## BERKELEY "HIGH HEAD" ELECTRIC PUMP

| PART #                           | MODEL | H.P | VOLTAGE   | SUCTION SIZE | DISCHARGE SIZE |
|----------------------------------|-------|-----|-----------|--------------|----------------|
| <b>HIGH HEAD ELECTRIC PUMPS</b>  |       |     |           |              |                |
| FE CP1XPHS1                      | CP    | 1.0 | 115/230   | 1 ¼"         | 1"             |
| FE CP1XPHS15                     | CP    | 1.5 | 115/230   | 1 ¼"         | 1"             |
| FE CP125TPHS2                    | CP    | 2.0 | 115/230   | 1 ½"         | 1 ¼"           |
| FE CP150TPHS25                   | CP    | 2.5 | 115/230   | 2"           | 1 ½"           |
| <b>SN SHALLOW WELL JET PUMPS</b> |       |     |           |              |                |
| FE 5SN                           | SN    | 0.5 | 115 / 230 | 1 ¼"         | 1"             |
| FE 7SN                           | SN    | 0.7 | 115 / 230 | 1 ¼"         | 1"             |
| FE 10SN                          | SN    | 1.0 | 115 / 230 | 1 ¼"         | 1"             |
| FE 15SN                          | SN    | 1.5 | 115 / 230 | 1 ¼"         | 1"             |

# YOUR PARTNER FOR WATER SYSTEMS

 HIGH EFFICIENCY SYSTEMS

 PUMPS

 MOTORS

 DRIVES

Discover our proven application capabilities for a wide array of solutions.



Franklin Electric offers a wide array of **submersible pumps** designed for the movement of water and corrosive chemicals. These submersible pumps feature proven components, able to withstand the harshest environments and provide superior performance.

- 4" High Capacity Pumps
- 6" 4400 Submersible Radial Pumps
- 6" & 8" SR Turbine Pumps
- 6" SSR SEries Submersible Turbine Pumps
- 5", 6", 8" & 9" STS Turbine Pumps

The AG series **centrifugal pumps** are close-coupled, electric motor drive pumps producing flows ranging from 65 - 900 GPM. They feature all-iron construction, enclosed impellers, mechanical shaft seal, replaceable stainless steel shaft seals, replaceable stainless steel shaft sleeves and are all back pull-out designs for ease of service.



Submersible Pumps



Centrifugal Pumps

For information on larger electrical pump units, or ordering process, please contact your expert Ag Sales Team.

## FRANKLIN PUMPS

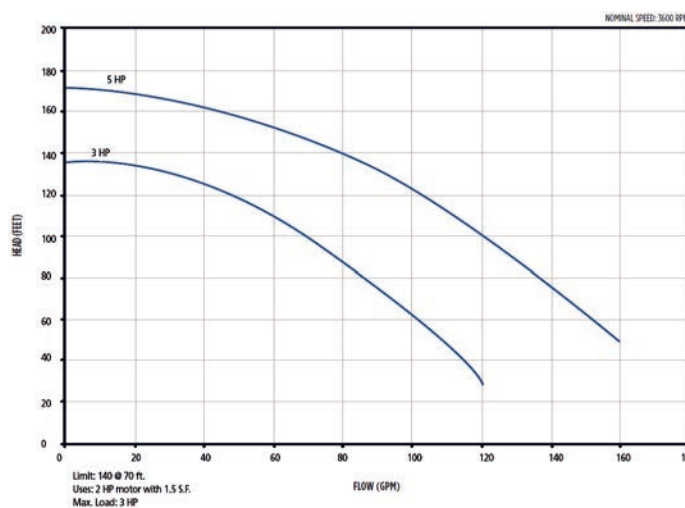
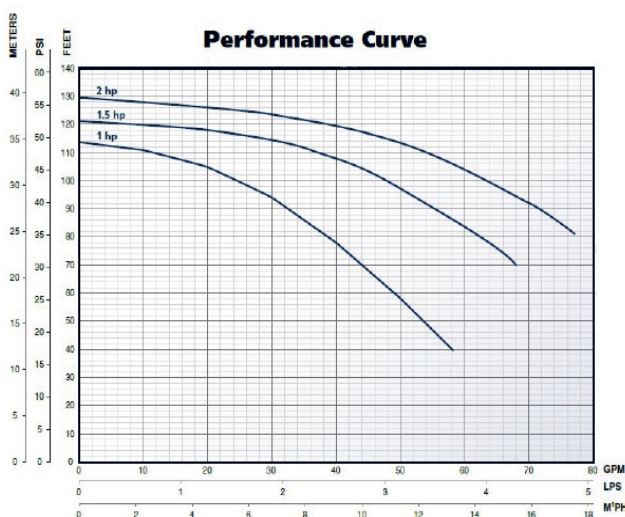


Turf Boss 1 & 2 HP



Turf Boss 3 & 5 HP

| MODEL     | HP | PHASE | SUCTION (IN) | DISCHARGE (OUT) | VOLTAGE 115 | 230 |
|-----------|----|-------|--------------|-----------------|-------------|-----|
| FRFTB1CI  | 1  | 1     | 1½           | 1½              | ✓           | ✓   |
| FRFTB15CI | 1½ | 1     | 1½           | 1½              | ✓           | ✓   |
| FRFTB2CI  | 2  | 1     | 1½           | 1½              |             | ✓   |
| FRFTB3CI  | 3  | 1     | 2            | 2               |             | ✓   |
| FRFTB5CI  | 5  | 1     | 2½           | 2               |             | ✓   |



## FRANKLIN CERUS X-DRIVE

Designed for variable torque applications up to 700 HP, the VFD Serus X-Drive is the all inclusive drive solution. The X-Drive controller is loaded with application-specific firmware with enhanced settings that control and protect motors for the most demanding applications.

- Streamlined setup process with application-specific firmware that pre-programs built in settings for easy startup
- Built in DC choke for applications of 50 HP or higher
- Built in Programmable Logic Controller (PLC)
- Designed with a UL type 4X removeable display that can be mounted remotely
- UL-Listed phase conversion versatility allows for single-phase or three-phase input



## GAS POWERED PUMPS



The IPT Self-priming Two-stage High Pressure Engine Driven pump includes precision cast high efficiency impellers to maximize performance and pressure. Other features include:

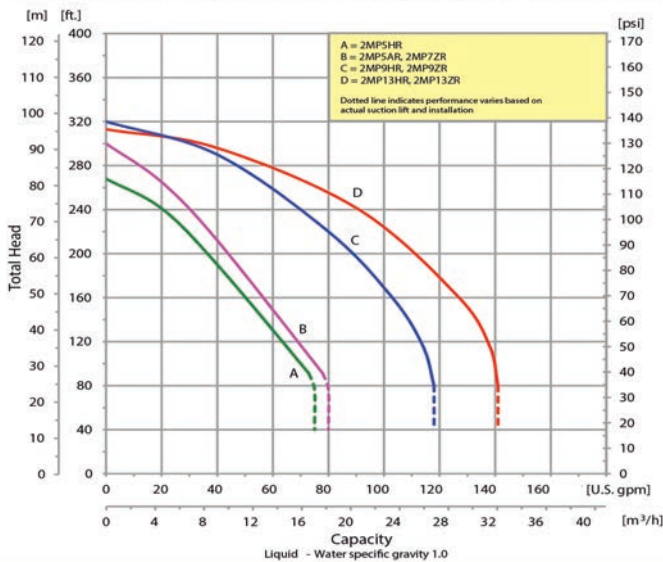
- Cast aluminum construction with cast iron diffusers
- 2" NPTM male cast iron suction port
- Three-way cast iron discharge port
- Maximum head up to 155 PSI
- Maximum flow up to 160 GPM



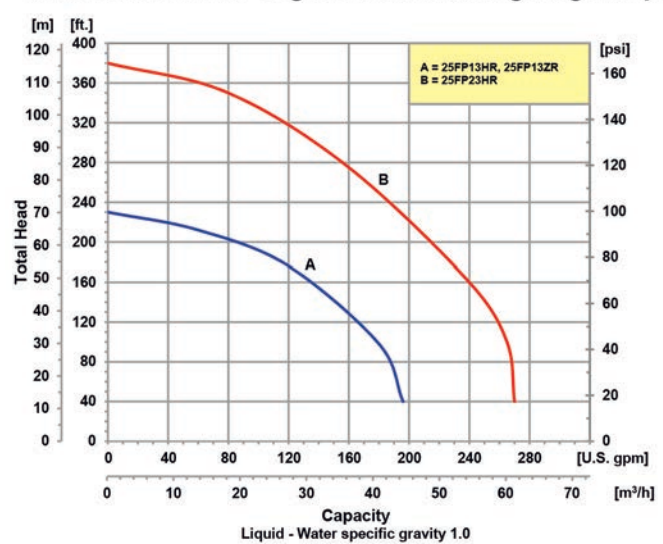
The IPT Engine Drive line of high pressure pumps deliver excellent pressure and flow. Portable units feature metal fuel tanks installed on engine or frame depending on model. Other features include:

- Aluminum construction with replaceable hard coat anodized wear ring
- 2 ½" NPT port sizes
- Built-in discharge check valve
- Maximum head up to 165 PSI
- Delivers to 270 GPM
- Available with Honda engine with 12 Volt DC Electric Start

Performance of Engine-Driven 2-Stage High Pressure Pumps



Performance of 2½" High Pressure Fire Fighting Pumps



## GAS POWERED PUMPS

| PART #      | MODEL     | H.P  | ENGINE       |
|-------------|-----------|------|--------------|
| DX 2MP5XHR  | G-R, 2P5X | 5.5  | Honda, GX160 |
| DX 2MP9HR   | AMT       | 9.0  | Honda, GX270 |
| DX 2MP13HR  | AMT       | 13.0 | Honda, GX390 |
| DX 25FP23HR | AMT       | 23.0 | Honda, GX690 |

## DIESEL ENGINE PUMP UNITS



Berkeley Pump End



Rovatti Pump End



Cornell Pump End

Vanden Bussche Irrigation's line of Diesel Powered Pump Units lead the irrigation industry in innovation. Semi-enclosed units feature an all galvanized steel frame with removable tow hitch and a full compliment of instruments. We match a Diesel Engine to a Berkeley, Rovatti or Cornell S.A.E. Pump End, designed and built to perform for your irrigation system.

Our unique modular construction means options like:

- Fuel Tanks
- Super Silencer Muffler
- Hale Power Primers
- Full Enclosure Packages
- Automated Control units may be added easily to a power unit.

All of our Diesel Units are emission certified and are available in a wide selection of power ratings to suit your water management goals from manufacturers such as: John Deere, Cummins, Kubota, Iveco and Caterpillar.



Enclosure Packages



# BERKELEY ENGINE MOUNT PUMPS



Berkeley S.A.E. Centrifugal Series Pumps are suitable for any application requiring the convenience of an internal combustion engine as a power source. State of the art design delivers 20,000 hours of bearing life. Key features include:

- 28 pump models, with flows to 6500 GPM, pressure to 500 feet
- Cast Iron or Silicon Bronze Impellers
- Volute case for easy removal and repair
- Heavy-Duty Power Frame designed for durability
- Dry run seal option available

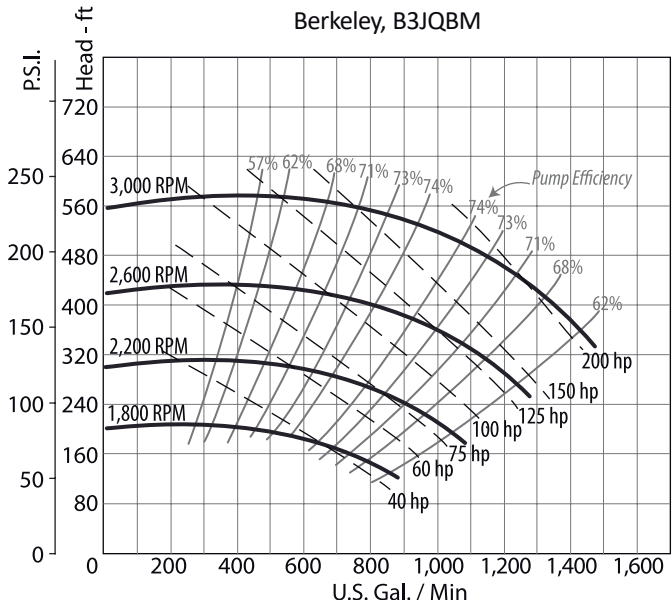
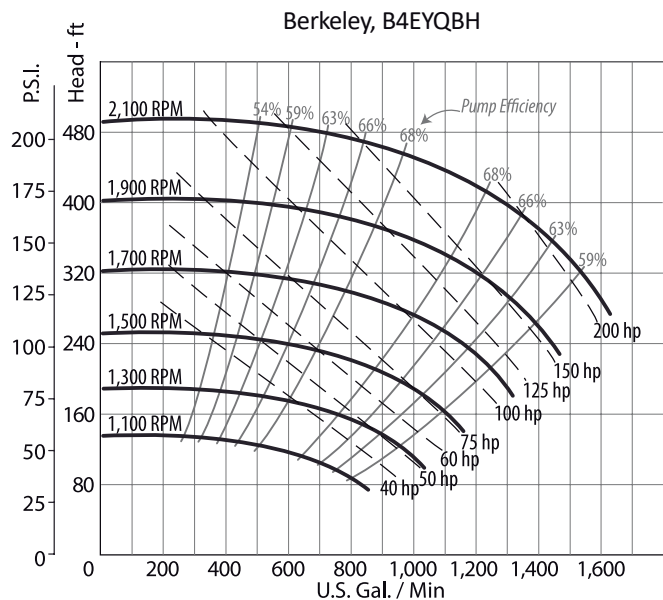
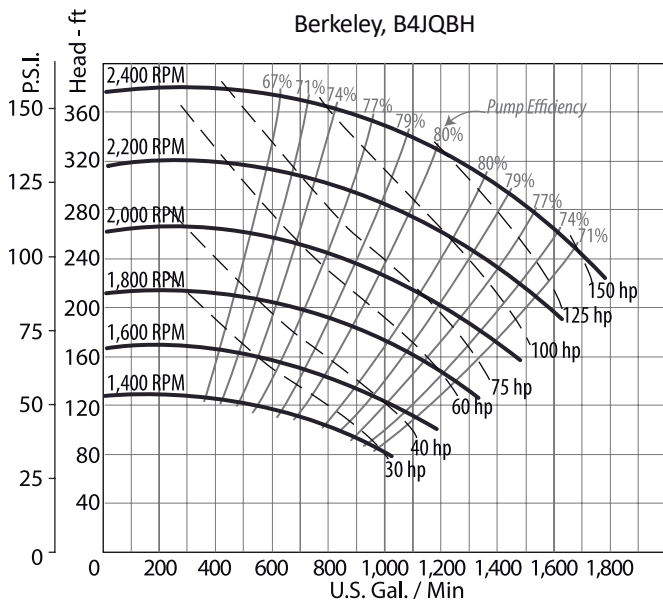
Berkeley's Type B Centrifugal Pumps with S.A.E. mounts feature:

- Replaceable Bronze Wear Ring
- Replaceable Stainless Shaft Sleeves

Type B's are also available with:

- Packing or Mechanical Sealing Options
- Cast Iron or Bronze Impeller

Let us know what your water management goals are. Our irrigation professionals at Vanden Bussche Irrigation can match a pump to your unique needs.

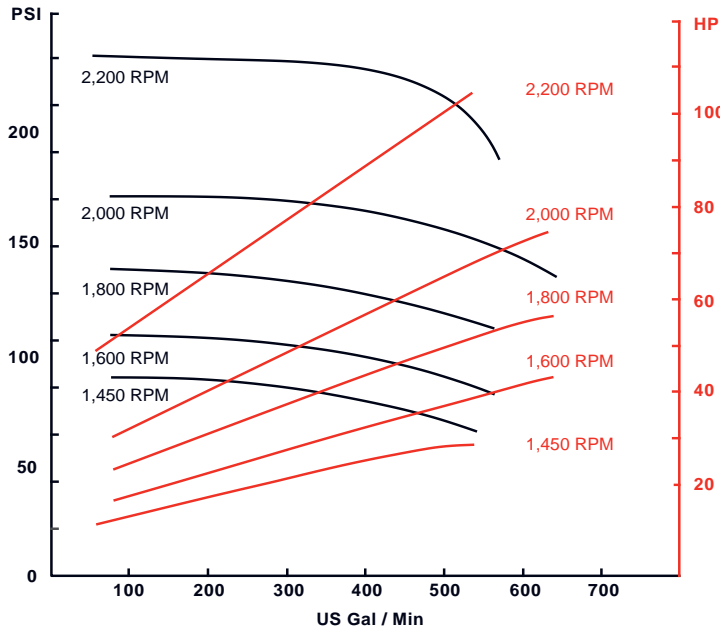


# ROVATTI ENGINE MOUNT PUMPS

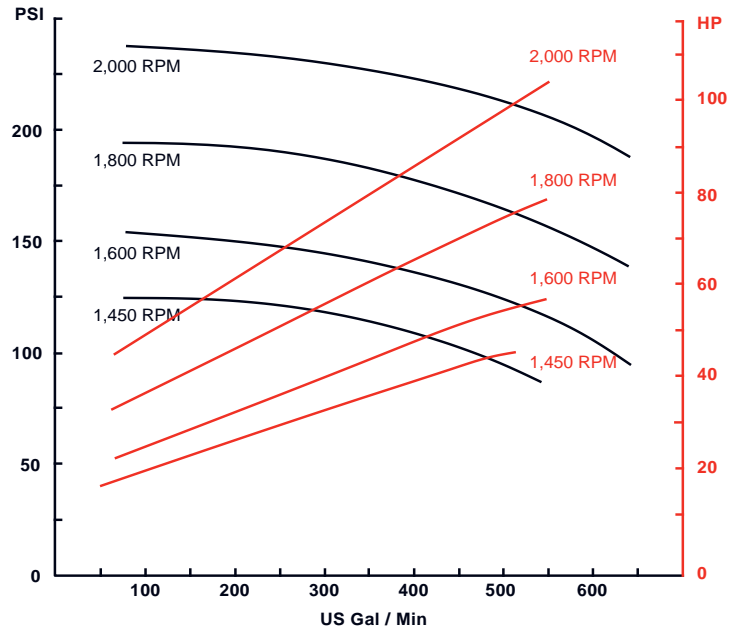
Rovatti multi-stage pumps are renowned for their high pressure performance, quality craftsmanship, and straight forward design. For applications where you need every pound of pressure, choose Rovatti.



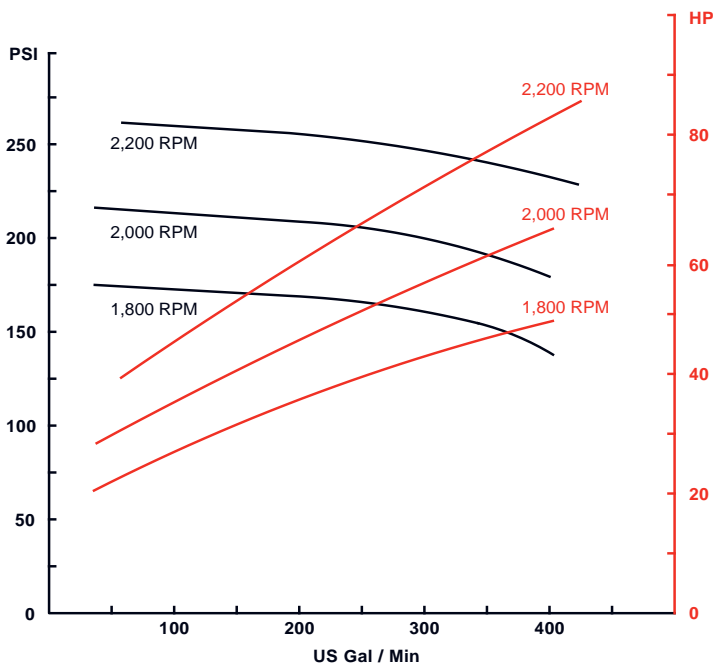
Rovatti, F33K-100/2E - Two Stage



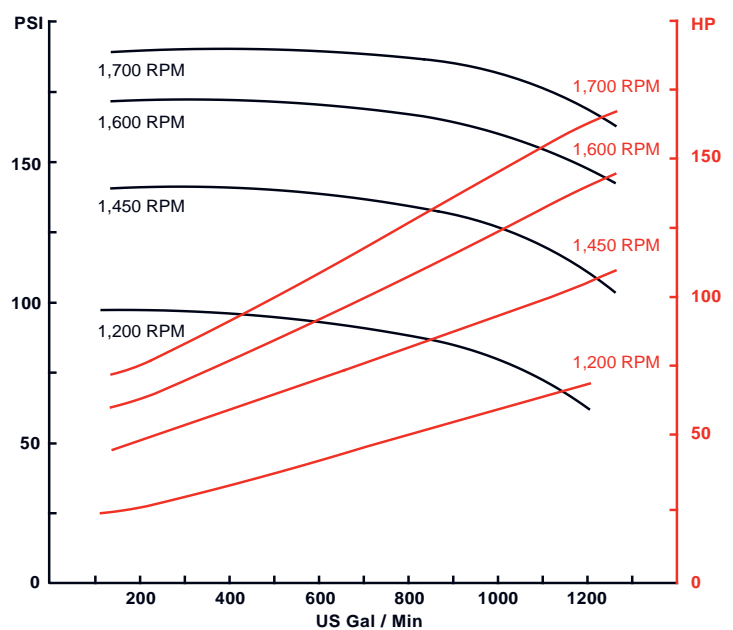
Rovatti, F33K-100/3E - Three Stage



Rovatti, F33K-100-90/3E - Three Stage



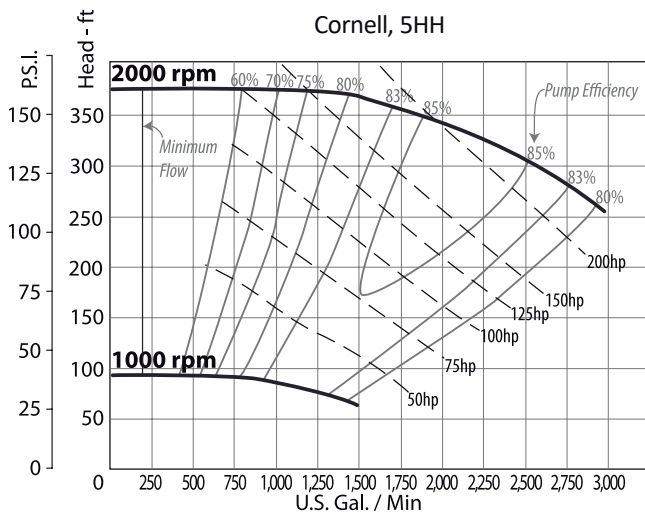
Rovatti, F34K-150/2E - Two Stage





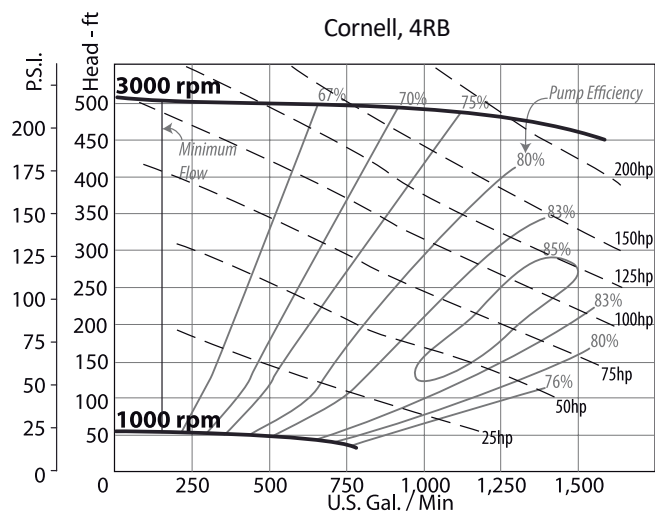
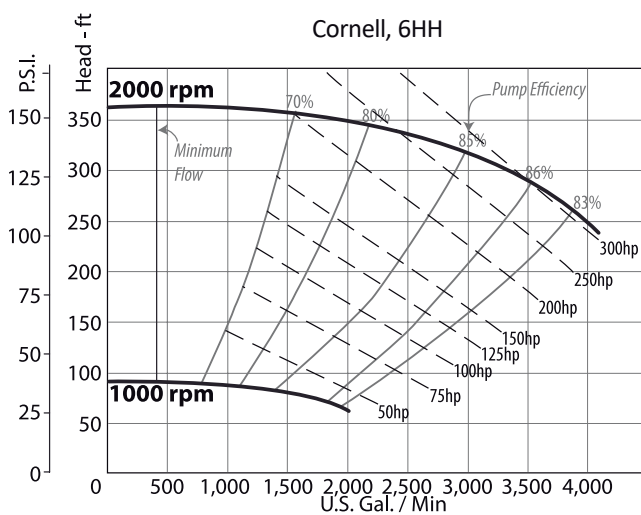
## CORNELL ENGINE MOUNT PUMPS

Cornell has built its reputation on producing high quality, efficient, heavy-duty centrifugal pumps to meet the toughest applications. A Cornell pump uses the latest techniques in designing, manufacturing and the rigorous testing of its products.



Available for Cornell Pumps:

- Cycloseal's patented construction design can last as much as 10 times longer than a typical seal
- Run-Dry, auxiliary gland & oil reservoir keeps seal face lubricated and dry running
- Redi-Prime, fully automatic pump priming and re-priming



Listed here is only a very small selection of Cornell pumps and options for S.A.E. Engine Mount.





# ROBUST, RELIABLE, QUALITY AGRICULTURAL PUMPS SINCE 1946

Now with 21st Century innovation:  
Cornell Co-Pilot



Allows remote monitor of:

- Temperature
- Vibration
- Pressure
- Flow
- Remote/Start and Stop

Co-Pilot's predictive maintenance means  
longer pump life and less downtime

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THROUGH VANDEN BUSSCHE IRRIGATION**

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WWW.CORNELLPUMP.COM | P: +1 (503) 653-0330 | F: +1 (503) 653-0338

## HAND AND POWER PRIMERS

The Hale 12 volt Power Primer is fast and efficient at priming with the pull of a switch. The Power Primer may be mounted directly onto a diesel powered unit or as a Portable Unit, powered by heavy duty jumper cables and your vehicles battery.



Hale Power Primer

### PRIMERS AND PARTS

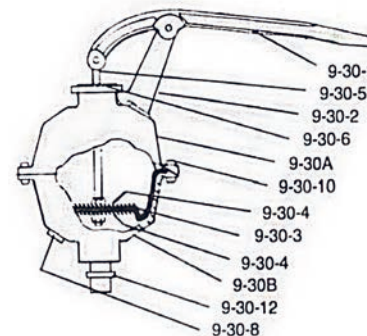
| PART #              | DESCRIPTION                         |
|---------------------|-------------------------------------|
| <b>POWER PRIMER</b> |                                     |
| AI501-3090-01       | Power Primer 12V ESP Less Lubricant |
| AI501E              | Engine Mount for Power Primer       |
| AI501P              | Portable Power Primer               |
| AI P7304514         | Reservoir for coolant               |
| AI P7023241         | Shut off Valve                      |
| AIP200-0042-00-0    | Motor for 12V Power Primer          |
| AIP200-2450-01-0    | Switch Micro for Power Primer       |
| AIP538-0210-00-0    | Priming Valve                       |
| AWPP35DC            | Power Primer 1/2 HP1 Phase 12V DC   |
| <b>HAND PRIMER</b>  |                                     |
| BE9-30              | Wade Rain Hand Primer               |
| AW7-HP              | Hand Primer #7                      |



Wade Rain, Hand Primer

### WADE RAIN HAND PRIMER DIAPHRAGM PUMP PARTS

| PART #               | DESCRIPTION                       |
|----------------------|-----------------------------------|
| BEP 9-30A            | Body, Top Half                    |
| BEP 9-30B            | Body, Lower Half                  |
| BEP 9-30-1           | Handle                            |
| BEP 9-30-2           | Handle Support                    |
| <b>**BEP 9-30-3</b>  | <b>Rubber Diaphragm</b>           |
| BEP 9-30-4           | Steel Diaphragm                   |
| BEP 9-30-5           | Connecting Rod & Nut              |
| BEP 9-30-6           | Handle Bracket Lock Nut           |
| BEP 9-30-8           | Rubber Discharge Valve            |
| <b>**BEP 9-30-12</b> | <b>Ball Check Valve with Ball</b> |
| BEP 9-30-13          | 3/4" Stainless Ball Only          |



**\*\*Suggested parts to always have on hand.**

Your expert Sales Team can recommend the right primer for you.

## CONTROLLERS & SWITCHES

The **DynaGen Plug-N-Play** controller is the complete control solution for diesel and gas engines.

- Easily configured using the front panel buttons or RapidCore configurator software
- Rugged, weather resistant box
- Supports all major diesel engines
- Pre-configured options available for many engines
- Generator version available
- Recommended model: TE410A - engine model with automatic start



The **Controls Inc. C-Series** controller is the complete engine and equipment display, monitoring and control system.

- Complete engine display and alarms for mechanical and J1939 engines
- Large, easy-to-read display and sophisticated throttle
- Rugged waterproof unit with plug and play connectors
- Easy-to-read OLED display providing excellent visibility
- Performance to -40°C
- Covers all emission tiers including final tier 4
- A full range of configurable inputs and outputs for seamless equipment integration and communications to other external devices



EIPC37020

The **MurphyLink Series ML2000 Panel** includes powerful, yet simple to configure MPC-20 Controller. This controller was developed to meet the need of manual or automatic control whether it's starting/stopping, throttling or both.

- Features MPC-20 Controller
- Standard Panel Designed for modern electronic engines and Equipment Applications using SAE J1939 CAN
- Ability to display active or stored faults through text, as well as diagnosing equipment malfunctions
- Fully configured software from front user interface or PC configuration
- Ability to customize settings with PC configuration tool



DSML20004X

### CONTROLS & GAUGES

| PART #         | DESCRIPTION                                      |
|----------------|--|
| EIPC37020      | Engine Display and Control Panel, J1939 Engines  |
| DS ML20004X    | Murphy Panel Control for Engines                 |
| DS 20P70-100   | Pump Pressure Switchgauge, max. 100 P.S.I.       |
| DS 20P70-150   | Pump Pressure Switchgauge, max. 150 P.S.I.       |
| DS 20P70-200   | Pump Pressure Switchgauge, max. 200 P.S.I.       |
| DS 20P70-300   | Pump Pressure Switchgauge, max. 300 P.S.I.       |
| DS 20V-30      | Engine Vacuum Switchgauge, max. 150 P.S.I.       |
| DS A20DPK15    | Differential Pressure for Filter, max. 15 P.S.I. |
| DS A20DP-30    | Differential Pressure for Filter, max. 30 P.S.I. |
| DS 20T-250-48  | Temperature Switchgauge, max. 250°F, 48" lead    |
| DS 20T-250-72  | Temperature Switchgauge, max. 250°F, 72" lead    |
| DS 20T-250-120 | Temperature Switchgauge, max. 250°F, 120" lead   |



Pump Pressure Switch Gauge



Differential Pressure Switch Gauge



Temperature Switch Gauge





Vacuum Switch Gauge


# SURE-FLO


## SUCTION FITTINGS


Sure-Flo Aluminum, Suction Screens & Foot Valves ensure debris stays in your pond not in your irrigation system. Foot Valves have the added advantage of keeping water in the suction line, drastically reducing the amount of time needed to prime the pump at startup.


|   | PART #   | SIZE |
|---|----------|------|
| SURE-FLO SUCTION SCREEN WITH SLIDE  |          |      |
|  | AU SFS2  | 2"   |
|   | AU SFS3  | 3"   |
|   | AU SFS4  | 4"   |
|   | AU SFS5  | 5"   |
|   | AU SFS6  | 6"   |
|   | AU SFS8  | 8"   |
|   | AU SFS10 | 10"  |
|   | AU SFS12 | 12"  |


|   | PART #   | SIZE |
|---|----------|------|
| STANDARD FOOT VALVE FOR ALUMINUM TUBING   |          |      |
|  | AU SFV2  | 2"   |
|   | AU SFV3  | 3"   |
|   | AU SFV4  | 4"   |
|   | AU SFV5  | 5"   |
|   | AU SFV6  | 6"   |
|   | AU SFV8  | 8"   |
|   | AU SFV10 | 10"  |


|   | PART #   | SIZE |
|---|----------|------|
| VERTICAL FOOT VALVE FOR ALUMINUM TUBING   |          |      |
|  | AU SFVV3 | 3"   |
|   | AU SFVV4 | 4"   |
|   | AU SFVV5 | 5"   |
|   | AU SFVV6 | 6"   |
|   | AU SFVV8 | 8"   |

|   | PART #      | SIZE |
|---|-------------|------|
| 2" x 3' PVC SAND POINT, 10 SLOT (SPIGOT CONNECT)  |             |      |
|  | FH BBP200-3 | 2"   |

|  | PART #   | SIZE   |
|--|----------|--------|
| PVC FOOT VALVE, POPPET STYLE, EPDM SEAL, FIPT                                      |          |        |
|  | BA 44067 | 1"     |
|  | BA 44065 | 1 1/2" |
|  | BA 50051 | 2"     |

|  | PART #     | SIZE |
|--|------------|------|
| VERTICAL FOOT VALVE - FLANGE   |            |      |
|  | AU SFVV3CF | 3"   |
|  | AU SFVV4CF | 4"   |
|  | AU SFVV5CF | 5"   |
|  | AU SFVV6CF | 6"   |
|  | AU SFVV8CF | 8"   |

|  | PART #     | SIZE |
|--|------------|------|
| VERTICAL FOOT VALVE - FIPT   |            |      |
|  | AU SFVV2FP | 2"   |
|  | AU SFVV3FP | 3"   |
|  | AU SFVV4FP | 4"   |

|  | PART #      | SIZE    |
|--|-------------|---------|
| PVC SAND POINT, 10 SLOT (SPIGOT CONNECT)   |             |         |
|  | FH BBP200-3 | 2" x 3' |
|  | FH BBP200-4 | 2" x 4' |

Sure-Flo offers a number of options to increase suction flow. Larger hole sizes, Jumbo, Double Stacked and X Sized Suction Screens and Foot Valves are available to increase the surface area without increasing hole size.

## SUCTION FITTINGS

# SURE-FLO



Horizontal Strainer with optional Foot Valve



Self-Cleaning Strainer



Clear area created by a Sure-Flo Self Cleaning Strainer in Action

Horizontal Strainers provide an ideal solution for pumping from shallow streams. Additional strainer sections may be added to increase surface area. A Foot Valve with tube connection easily bolts into place.

Self-Cleaning Strainers deal very effectively with debris and algae with capacities from 50 gpm to 3,000 gpm. Water is returned to the strainer from the discharge side of the pump; nozzles inside the strainer cause the screen to revolve. Debris that is attached to the screen is blown free when the screen revolves past a hard hitting spray pattern.

Self-Cleaning strainers come in a wide variety of screen lengths and nozzle configurations. A single row of nozzles are available as well as a double row configuration. Also available from Sure-Flo is a Shallow Water Self-Cleaner that needs only 5" above the screen top.

### STRAINERS

| PART #    | DESCRIPTION                               | SIZE |
|-----------|---|------|
| AU SFSH4  | Horizontal Strainer                       | 4"   |
| AU SFSH6  | Horizontal Strainer                       | 6"   |
| AU SFSH8  | Horizontal Strainer                       | 8"   |
| AU SCS2   | Self-Cleaning Strainer, Single Noz. Drive | 2"   |
| AU SCS4   | Self-Cleaning Strainer, Single Noz. Drive | 4"   |
| AU SCS6   | Self-Cleaning Strainer, Single Noz. Drive | 6"   |
| AU SCS8   | Self-Cleaning Strainer, Single Noz. Drive | 8"   |
| AU SCS4DD | Self-Clean. Strainer, Double Noz. Drive   | 4"   |
| AU SCS6DD | Self-Clean. Strainer, Double Noz. Drive   | 6"   |
| AU SCS8DD | Self-Clean. Strainer, Double Noz. Drive   | 8"   |

Using a Food Grade PVC Barrel with all aluminum frame, Vanden Bussche's own innovation clamps onto an aluminum suction tube, keeping the end suction off of the pond bottom.

### SUCTION PIPE FLOAT



| PART #           | DESCRIPTION                |
|------------------|----------------------------|
| GA BARRELA5SY-4  | Barrel & Stand for 4" Pipe |
| GA BARRELA5SY-5  | Barrel & Stand for 5" Pipe |
| GA BARRELA5SY-6  | Barrel & Stand for 6" Pipe |
| GA BARRELA5SY-8  | Barrel & Stand for 8" Pipe |
| GA BARREL        | Plastic Barrel             |
| GA BARRELSTAND-4 | 4" Barrel Stand            |
| GA BARRELSTAND-5 | 5" Barrel Stand            |
| GA BARRELSTAND-6 | 6" Barrel Stand            |
| GA BARRELSTAND-8 | 8" Barrel Stand            |

# The Most Efficient Transplanters on the Market!



**Checchi & Magli**  
**TRANSPLANTERS**

**REDUCE LABOR!**  
Sets and packs plants **Straight UP!**  
The C&M Transplanter does the job better!

**C&M Carousel Models**  
for plug-type plants

*as close as 11" row-to-row*  
*as tight as 4" plant-to-plant*  
**FULLY ADJUSTABLE**

8-row TRIUM  
planting peppers



6-row Dual 12 Gold planting turnips



- tomatoes
- peppers
- broccoli
- cabbage
- lettuce
- turnips
- celery
- cauliflower
- onions
- watermelons
- sweet potatoes
- tobacco



C&M North America  
**1-720-236-9039**

**BestTransplanter.com**

Trium, Total Control Transplanter, excels at transplanting seedlings with developed leaves (tobacco, cabbage, tomato etc). Approximate output is 4,500 to 5,000 plants per hour per row.

- Semi-automatic transplanter for tapered & pyramid shaped cells up to 3 cm in diameter
- Horizontal rotating tray with 10 large capacity, fully opening cups
- Modular / independent floating transplanting units with C&M's high range parallelogram bar connection that keeps each transplanter at a constant horizontal level as it moves across uneven ground
- Easily adjustable Inter-Row spacing on 3 point hitch models 50 to 90 cm, options available for smaller & wider inter-row spacings
- Adjustable Inter-Plant spacing from 14 to 50 cm (wider spacings available)
- Packing wheels have triple adjustment for perfect ridging
- Adjustable: spacing between shoe & packing wheels, seedling placement for tall/ short plants, planting depth, ejection timing and wheel scraper



Trium 4 Row Transplanter

The Dual 12 Gold is the queen of the transplanters, having received numerous international awards.

- Single operator feeds at the same time the twin rows of twin transplants, with the consequent reduction to half of the costs of the labor.
- Equipped with a double-jointed parallelogram and reach an indicative production of approximately 6000 plants/an hour



Dual 12 Gold

## TRANSPLANTERS



Uni Trium 2 Row Transplanter

Uni Trium is a semi-automatic seedling transplanter for square and pyramid-shaped cells, and plants up to 6 cm in diameter, typically used for the planting of cabbage, cauliflower, broccoli, lettuce and tomatoes.

- Large 10 cup distributor with flat bottom opening cup for reduced noise and reduced wear
- 4000/5000 plants per hour, per row
- Cup extensions for taller plants
- Reduction inserts for small seedlings.
- Rotary tray holder, 4 tray capacity



F300L 2 Row Potato Planter

The F300L Semi-Automatic 2 Row Planter is made for seeding whole or cut potatoes, tubers, seeds, nuts & bulbs. Maximum output per operator is 0.6 ha per day, per row. Also available as a 1, 3 & 4 row planter.

- Bin size 70 to 80 kg per row
- Inter-Row spacing 55 to 90 cm (wider available)
- Inter-Plant Spacing 14 to 28 cm, optional kits available for garlic (8, 10, & 12 cm spacing) and wider spacings (32, 35 & 38 cm)
- Maximum tuber size 7 cm by 11 cm
- Adjustable planting depth
- Adjustable drive wheel position
- Adjustable covering discs
- Adjustable drive wheel position



SP50V Potato Lifter

SP50V Potato Lifter is ideal for digging potatoes, garlic, bulbs & other tubers. Single row lifter with rear discharge works great for small tractors with field row spacings between 60 to 90 cm.

You just need a 3 pt hitch and a 540 P.T.O.



Wolf 2 Row Transplanter

The Wolf Transplanter excels at transplanting seedlings conical or cylindrical as well as bulbs & seeds up to 7 cm in diameter. The Wolf's perforating planter cup will plant through plastic mulch. Maximum output is up to 3,000 plants per hour, per row.

- Vertically rotating cups (from 1 to 6)
- Modular/independent floating transplanting units
- Easily adjustable Inter-Row spacing on 3 point hitch models, 30 to 90 cm available only on 2-Row Wolf, 3, 4, 5 & 6 Row Wolf has 50 to 90 cm
- Adjustable Inter-Plant spacing from 20 to 198 cm, dependent on the number of planter cups. Eg. a D5 - 5 Cup transplanter is able to plant through plastic at 27, 30, 33 & 35 cm by changing pinions.
- Adjustable planting depth, safety release, and seedling placement for tall/short plants

# The Most Efficient Transplanters on the Market!



## Checchi & Magli TRANSPLANTERS

- Sets and packs plants straight UP!
- Consistent plant-to-plant spacing

### C&M WolfPRO Model

- Plants through plastic OR direct ground
- Great for any size of plugs up to 3"x 3"

### CAST IRON CUPS



### C&M FoxDrive Model pocket/finger type

6-row planting  
sweet potatoes



BARE ROOT OR PLUG



- tomatoes
- peppers
- broccoli
- cabbage
- lettuce
- turnips
- celery
- cauliflower
- onions
- watermelons
- sweet potatoes
- tobacco



C&M North America

1-720-236-9039 [BestTransplanter.com](http://BestTransplanter.com)

The **FoxDrive Transplanter** is a great transplanter for tobacco and sweet potatoes. Semiautomatic gripper type for seedling with bare roots or balled roots. Suitable for biomass and bioenergy cultivations.

- Two tyre driving wheels
- Equipped with STANDARD 10-gripper distributor for inter-plant spacings from 23 to 80 cm
- For smaller spacings, the SPECIAL or MASTER distributor are available on request
- Minimum inter-row spacing 50 cm., maximum 90 cm and over on request
- FOXDRIVE-DT Version for inter-row spacings less than 50cm., minimum 25cm.
- Indicative production: 2000/2500 plants per hour each row

The **Wolf PRO Transplanter** has been designed for professional use, with or without mulching film.

- Equipped with a continuous rotation perforating cups distributor
- Parallelogram for constant deep soil work
- Large diameter (41 cm-16") compacting wheels
- Side cleaning blades for the perforating cups
- Works perfectly in the presence of biodegradable mulching film and/or heavy soils. It is possible to transplant peat clod-rooted conical, pyramidal or cubic seedlings of maximum 8 cm-3".

Checchi & Magli Transplanters are available in more models, combinations and mounting setups than shown here. For each transplanter there are also many options for plant holders, spacings, fertilizers, water, packing wheels, shoe/ploughshare sizes, hydraulics and disc sets.

Contact your expert Sales Team for more information on sizing and ordering.



FoxDrive Transplanter



Wolf PRO Transplanter



## MULCH LAYERS



Model 2570 Plastic Mulch Layer

### Model 2570 Plastic Mulch Layer

- 60" row centre with 4' plastic, 70 HP FWD minimum tractor size
- 3-point hitch
- Adjustable plastic width from 3' or 4'
- Adjustable bed height from 3"-7"
- Adjustable brake tension on plastic roll carriers
- Adjustable side press plates on bed press
- Operator seat on unit
- Adjustable row markers
- Replaceable and reversible plow share blades
- UHMW plastic lined bed press
- Drip tape attachment
- Crowned bed
- Spring loaded shovels on side helps loosen soil for cover disk



Model 2670 Plastic Mulch Layer

### Model 2670 Plastic Mulch Layer

- 64" Row centres with 4' plastic; 80 HP FWD minimum tractor size
- 3-point hitch
- Adjustable plastic width from 3'-5'
- Adjustable bed height from 5"-9"
- Adjustable brake tension on plastic roll carriers
- Adjustable side press plates on bed press
- Operator seat on unit
- Adjustable row markers
- Replaceable and reversible plow share blades
- UHMW plastic lined bed press
- Drip tape attachment
- Crowned bed
- Spring loaded shovels on side helps loosen soil for cover disk



### 6818 Subsurface Drip Applicator

- Heavy duty subsurface drip applicator with 3-point hitch
- Depth adjustable from 4" - 18"
- 6" x 6" toolbar for 30"- 68" row centres
- Shear bolt for rocky soil
- Convenient operator platform
- 2" ID stainless steel down tube for 5/8" - 1 1/8" tape
- 45° spool holder for fast and easy loading

We also have Mulch Layers and Bed Shapes available to rent. Contact your Sales Rep for more information.



## TRANSPLANTERS & MULCH LIFTERS

### Model 1670 Water Wheel Transplanter

- Recommended tractor size: 50-70 HP FWD
- Field ready with one planting wheel
- Will plant bare roots, pots and plugs
- Capability of 8"-36" row spacing and 1-4 planting wheels
- 2 x 80 gallon tanks
- Up to 25 tray carrying capacity
- Will plant 60" row spacing
- Galvanized expanded metal trays



### Super Wheel

Rain-Flo's Super Wheel is the ultimate in flexibility and convenience. Removable hard plastic snap-in-lids cover slots in the wheel. Remove the lids and simply Snap-On a Spike.

### SUPER WHEEL

| PART #   | PLANT SPACING/NO. OF SPIKES                             | SIZE |
|----------|---|------|
| EH WWS24 | 8"-12, 16"-6, 22"-4, 28"-3, 40"-2, 77"-1                | 24"  |
| EH WWS26 | 6"-18, 12"-9, 17"-6, 31"-3, 45"-2, 86"-1                | 26"  |
| EH WWS30 | 5"-24, 10"-12, 14"-8, 19"-6, 27"-4, 35"-3, 51"-2, 98"-1 | 30"  |

For a plant spacing of 31", 3 spikes would be mounted on a 26" Super Wheel (Snap-In Spikes Sold Separately)

### Super Wheel



### SUPER WHEEL SNAP-ON SPIKE

| PART # | TYPE | TRAY/POT SIZE        | BASE WIDTH | LENGTH | TOP WIDTH |
|--------|------|----------------------|------------|--------|-----------|
| EH WSA | A    | 3" Pot               | 4"         | 6"     | 2"        |
| EH WSB | B    | 2 1/2" Pot           | 3 1/4"     | 5 1/2" | 1 1/2"    |
| EH WSC | C*   | 50 to 72 count Tray  | 2 5/8"     | 4 1/2" | 1 1/4"    |
| EH WSD | D    | 72 to 96 count Tray  | 2 1/4"     | 4"     | 1 1/8"    |
| EH WSE | E    | 96 to 128 count Tray | 2"         | 3 1/2" | 1"        |



\*Standard Wheels with Welded-On Spikes are also available.

When your vegetable crop is harvested, use **Challenger** to retrieve the plastic mulch to the surface. Challenger will lift plastic 3' to 5' wide. To prevent clogging, the 1800 has spring loaded trash and vine cutting disks with depth control wheels. Hitch up to Challenger and let it do the dirty work!

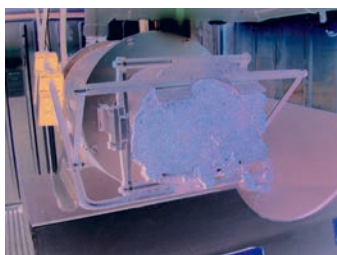
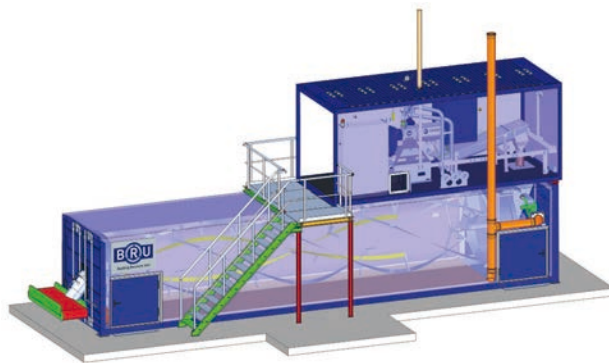
**Part #: EH 1800ML**



Challenger Model 1800  
 Plastic Mulch Lifter

## BEDDING RECOVERY UNIT

The Bed Recovery Unit (BRU) developed by FAN, separates, dries and disinfects undigested raw fibers of slurry. This way, costs can be reduced and, at the same time, the milk production is optimized. As this is an ecologic cycle not only the costs for bedding material but also disposal costs can be saved. This biological material is produced directly on the farm and always available.



The new discharge system can fill up to 70% of the drum, meaning a daily production of up to 46m<sup>3</sup> of bedding material.

In order to ensure the fully automatic controlled operation, a special control unit has been developed, which guarantees a constant dry matter content of 36-38% at the separator outlet.



**MAGNUM SX**  
 HIGH PRESSURE PUMP WITH CUTTING DEVICE



**HELIX DRIVE**  
 THE ECCENTRIC SCREW PUMPS FOR MEDIA WITH LOW AND HIGH VISCOSITY



## TURNING LIQUID GOLD INTO ENRICHED BEDDING

FAN Screw Separators produces bedding material with a dry matter content of up to 38% in solids with proven history

## FAN SEPARATORS

### FAN Press Screw Separator PSS

The Press Screw Separator PSS by FAN, a company of the Bauer Group, covers a broad spectrum of applications, from agriculture over biogas and bioethanol plants and food processing, to the chemical industry. It is fed by pump or gravity from a holding tank, with the ability to also be fed by hopper.



The machines are equipped with a flushing device inside the PSS between screen and housing for separating waste water from the slaughtering process in abattoirs. The screen will be flushed with hot water under pressure, allowing the screens to be kept clean.

## TECHNOLOGY LEADER IN LIQUID SOLID SEPARATION



**SEPARATOR**

A BAUER GROUP COMPANY



### FAN SEPARATOR

handling of thick and thin slurries –  
dryness of the solids between 25% and  
35% and with special machines up to 38% –  
high capacity, minimal maintenance, low  
power consumption.



## POND TREATMENT

Do you struggle to control algae and weed growth in your pond? If not properly managed it can create difficulties when irrigating, produce unpleasant odors, and simply be an eye sore for visitors and customers. Vanden Bussche Irrigation has teamed up with Arbourdale to help you take control of your pond! Their products are organic, biodegradable and safe for water quality, fish and animals.



| PART #   | DESCRIPTION      | SIZE/QUANTITY      |
|----------|------------------|--------------------|
| OB 11004 | Blast            | 1 box (12 packets) |
| OB 51116 | Aquasphere       | 1 sphere           |
| OB 52013 | Pond Dye - Black | 1 box (6 packets)  |
| OB 6811  | Renew            | 10L pail           |



### BLAST

- Used as a shock treatment
- 1 box treats 1,500,000 gallons of water
- Used with biosphere to compensate for seasonal spikes
- 100% natural and biodegradable

Recommended for hard to treat ponds with high amounts of floating organic matter.



### AQUASPHERE

- Used as a maintenance product
- Treats 500,000 gallons of water
- Gently toss into pond every 30 days
- 100% natural and biodegradable

Designed to prevent pond issues before they arise, promoting overall pond health.



### POND DYE - BLACK

- Used as a maintenance product
- 1 box treats 1.5 acre pond with average depth of 4 feet
- Use until desired colour is achieved
- 100% natural liquid

Pond dye minimizes light penetration resulting in less algae growth and beautiful reflections.



### RENEW

- Another form of shock treatment
- 1 Pail treats 20,000 sq./ft of surface area
- Dosage should be reduced by 50% if large fish population
- 100% natural powder

Renew is used to oxygenate ponds which have become stagnant.

## TOOLS & ACCESSORIES



Measuring Wheel



Standard Pressure Gauge



Marker Flags



Cable & Tightener



Tie Wraps

| TYPE       | DESCRIPTION  |
|------------|--|
| MA 11316   | 36" Landscape Rake   |
| MA 32214   | 24" Leaf Rake  |
| MA 32617   | Garden Rake  |
| MA 21373   | 3" Trenching Shovel  |
| MA 21374   | 4" Trenching Shovel  |
| MA 21375   | 5" Trenching Shovel  |
| MA 24172   | Irrigation Shovel  |
| MA 24182   | Mini-Round Shovel, D-Grip  |
| MA 24372   | Garden Spade - Long Handle   |
| MA 24382   | Garden Spade - D-Handle  |
| MA 24574   | 14" Drainage Spade - Long Handle                                   |
| MA 24584   | 14" Drainage Spade - D-Handle                                      |
| MA 26600   | Edger - 48" Handle   |
| MA 81014   | Dual Bristle Push Broom  |
| MA 81114   | Medium Bristle Push Broom  |
| MA MW19    | Measuring Wheel, in feet   |
| DS PG60    | 60 P.S.I. Standard Pressure Gauge                                  |
| DS PG100   | 100 P.S.I. Standard Pressure Gauge                                 |
| DS PG160   | 160 P.S.I. Standard Pressure Gauge                                 |
| DS PG200   | 200 P.S.I. Standard Pressure Gauge                                 |
| DS PG300   | 300 P.S.I. Standard Pressure Gauge                                 |
| DS OFPG030 | 30 P.S.I. Oil Filled Pressure Gauge                                |
| DS OFPG060 | 60 P.S.I. Oil Filled Pressure Gauge                                |
| DS OFPG100 | 100 P.S.I. Oil Filled Pressure Gauge                               |
| DS OFPG160 | 160 P.S.I. Oil Filled Pressure Gauge                               |
| DS OFPG200 | 200 P.S.I. Oil Filled Pressure Gauge                               |
| DS OFPG300 | 300 P.S.I. Oil Filled Pressure Gauge                               |
| DS OFV30   | 30 in HG. Oil Filled Vacuum Gauge                                  |
| OE A-HCP   | Pitot Tube, Attaches to Pressure Gauge to measure off of a nozzle. |
| AX RBF-S   | Marking Flags - Sold in bundles of 100                             |
| MB010-1000 | 1" Poly Pipe Cutter  |
| MB010-1025 | 1 1/4" Poly Pipe Cutter  |
| MB010-3000 | 1 1/2" Poly Pipe Cutter  |
| AT 08-08K  | 8" UV Coated Tie Wraps, 100/bundle                                 |
| AT 08-11K  | 11" UV Coated Tie Wraps, 100/bundle                                |
| AT 77-WIRE | 1/16" x 1,000' Stainless Aircraft Cable                            |
| AT 77-WT   | Tightener, 5/16" Drive   |

## Friction Loss in Polyethylene SDR-Pressure Rated Tubing

Velocity measured in ft / sec.,  
 PSI Loss Per 100 Feet of Pipe (PSI/100FT).

| " " | 3/4" |      | 1"   |      | 1 1/4" |      | 1 1/2" |      | 2"   |      | From                | Conversion Factors        |                           | From                      | Conversion Factors        |                     |
|-----|------|------|------|------|--------|------|--------|------|------|------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------|
|     | GPM  | Vel. | Loss | Vel. | Loss   | Vel. | Loss   | Vel. | Loss | Vel. |                     | Loss                      | Multiply                  |                           | To                        | Multiply            |
| 1   | 0.6  | 0.1  |      |      |        |      |        |      |      |      |                     |                           |                           |                           |                           |                     |
| 2   | 1.2  | 0.5  | 0.7  | 0.1  |        |      |        |      |      |      | <b>Length:</b>      | 2.54                      | centimeters               | centimeters               | 0.394                     | inches              |
| 3   | 1.8  | 1.0  | 1.1  | 0.3  | 0.6    | 0.1  |        |      |      |      | feet                | 0.3048                    | metres                    | metres                    | 3.281                     | feet                |
| 4   | 2.4  | 1.6  | 1.5  | 0.5  | 0.9    | 0.1  | 0.6    | 0.1  |      |      | miles               | 1.61                      | kilometres                | kilometres                | 0.6214                    | miles               |
| 5   | 3.0  | 2.4  | 1.9  | 0.8  | 1.1    | 0.2  | 0.8    | 0.1  |      |      | miles               | 5280                      | feet                      | feet                      | 0.000189                  | miles               |
| 6   | 3.6  | 3.4  | 2.2  | 1.1  | 1.3    | 0.3  | 0.9    | 0.1  |      |      | <b>Area:</b>        | 0.405                     | hectares                  | hectares                  | 2.471                     | acres               |
| 7   | 4.2  | 4.6  | 2.6  | 1.4  | 1.5    | 0.4  | 1.1    | 0.2  | 0.7  | 0.1  | acres               | <b>43560</b>              | <b>feet<sup>2</sup></b>   | feet <sup>2</sup>         | 2.2957 x 10 <sup>-5</sup> | acres               |
| 8   | 4.8  | 5.8  | 3.0  | 1.8  | 1.7    | 0.5  | 1.3    | 0.2  | 0.8  | 0.1  | hectares            | 10000                     | metres <sup>2</sup>       | metres <sup>2</sup>       | 0.0001                    | hectares            |
| 9   | 5.4  | 7.3  | 3.3  | 1.9  | 1.9    | 0.6  | 1.4    | 0.3  | 0.9  | 0.1  | metres <sup>2</sup> | 10.7639                   | feet <sup>2</sup>         | feet <sup>2</sup>         | 0.0929                    | metres <sup>2</sup> |
| 10  | 6.0  | 8.8  | 3.7  | 2.7  | 2.1    | 0.7  | 1.6    | 0.3  | 1.0  | 0.1  | inches <sup>2</sup> | 0.000645                  | metres <sup>2</sup>       | metres <sup>2</sup>       | 1550.003                  | inches <sup>2</sup> |
| 12  | 7.2  | 12.4 | 4.4  | 3.8  | 2.6    | 1.0  | 1.9    | 0.5  | 1.1  | 0.1  | <b>Volume:</b>      | 3630                      | feet <sup>3</sup>         | feet <sup>3</sup>         | 0.000275                  | acre-inch           |
| 14  | 8.4  | 16.5 | 5.2  | 5.1  | 3.0    | 1.3  | 2.2    | 0.6  | 1.3  | 0.2  | acre-inch           | 43560                     | feet <sup>3</sup>         | feet <sup>3</sup>         | 2.2957 x 10 <sup>-5</sup> | acre-feet           |
| 16  | 9.6  | 21.1 | 5.9  | 6.5  | 3.4    | 1.7  | 2.5    | 0.8  | 1.5  | 0.2  | feet <sup>3</sup>   | 28.32                     | litres                    | litres                    | 0.03531                   | feet <sup>3</sup>   |
| 18  | 10.8 | 26.2 | 6.7  | 8.1  | 3.9    | 2.1  | 2.8    | 1.0  | 1.7  | 0.3  | U.S. gallons        | 3.6826 x 10 <sup>-5</sup> | acre-inch                 | acre-inch                 | 27154                     | U.S. gallons        |
| 20  |      |      | 7.4  | 9.8  | 4.3    | 2.6  | 3.1    | 1.2  | 1.9  | 0.4  | U.S. gallons        | 231                       | inches <sup>3</sup>       | inches <sup>3</sup>       | 0.00433                   | U.S. gallons        |
| 22  |      |      | 8.2  | 11.7 | 4.7    | 3.1  | 3.5    | 1.5  | 2.1  | 0.4  | U.S. gallons        | 0.13368                   | feet <sup>3</sup>         | feet <sup>3</sup>         | 7.481                     | U.S. gallons        |
| 24  |      |      | 8.9  | 13.8 | 5.1    | 3.6  | 3.7    | 1.7  | 2.3  | 0.5  | U.S. gallons        | 0.833                     | Imp. Gallons              | Imp. Gallons              | 1.2009                    | U.S. gallons        |
| 26  |      |      | 9.6  | 16.0 | 5.6    | 4.2  | 4.1    | 2.0  | 2.5  | 0.6  | U.S. gallons        | 3.79                      | litres                    | litres                    | 0.26417                   | U.S. gallons        |
| 28  |      |      | 10.4 | 18.4 | 6.0    | 4.8  | 4.4    | 2.3  | 2.7  | 0.7  | U.S. gallons        | 0.003785                  | metre <sup>3</sup>        | metre <sup>3</sup>        | 264.172                   | U.S. gallons        |
| 30  |      |      |      |      | 6.4    | 5.5  | 4.7    | 2.6  | 2.9  | 0.8  | <b>Flow:</b>        | 2.228 x 10 <sup>-3</sup>  | foot <sup>3</sup> /second | foot <sup>3</sup> /second | 449                       | U.S. gal./min.      |
| 35  |      |      |      |      | 7.5    | 7.3  | 5.5    | 3.5  | 3.3  | 1.0  | U.S. gal./min.      | 2.203 x 10 <sup>-3</sup>  | acre-inch/hour            | acre-inch/hour            | 454                       | U.S. gal./min.      |
| 40  |      |      |      |      | 8.6    | 9.4  | 6.3    | 4.4  | 3.8  | 1.3  | U.S. gal./min.      | 0.06309                   | litres/second             | litres/second             | 15.85                     | U.S. gal./min.      |
| 45  |      |      |      |      | 9.6    | 11.6 | 7.1    | 5.5  | 4.3  | 1.6  | U.S. gal./min.      | 3.7854                    | litres/min.               | litres/min.               | 0.26417                   | U.S. gal./min.      |
| 50  |      |      |      |      | 10.7   | 14.1 | 7.9    | 6.7  | 4.8  | 2.0  | U.S. gal./min.      | 6.308 x 10 <sup>-3</sup>  | metre <sup>3</sup> /sec.  | metre <sup>3</sup> /sec.  | 15852                     | U.S. gal./min.      |
| 55  |      |      |      |      |        |      | 8.7    | 8.0  | 5.3  | 2.4  | U.S. gal./min.      | 0.22716                   | metre <sup>3</sup> /hour  | metre <sup>3</sup> /hour  | 4.4021                    | U.S. gal./min.      |
| 60  |      |      |      |      |        |      | 9.4    | 9.4  | 5.7  | 2.8  | <b>Pressure:</b>    |                           |                           |                           |                           |                     |
| 65  |      |      |      |      |        |      | 10.2   | 10.9 | 6.2  | 3.2  | inch of mercury     | 1.132                     | feet of head              | feet of head              | 0.8834                    | inch of mercury     |
| 70  |      |      |      |      |        |      |        |      | 6.7  | 3.7  | P.S.I.              | <b>2.31</b>               | <b>feet of head</b>       | <b>feet of head</b>       | <b>0.433</b>              | <b>P.S.I.</b>       |
| 75  |      |      |      |      |        |      |        |      |      |      | P.S.I.              | 0.06805                   | atmosphere                | atmosphere                | 14.7                      | P.S.I.              |
| 80  |      |      |      |      |        |      |        |      |      |      | P.S.I.              | 0.068966                  | bar                       | bar                       | 14.5                      | P.S.I.              |
| 85  |      |      |      |      |        |      |        |      |      |      | P.S.I.              | 6.89476                   | kilopascals               | kilopascals               | 0.145                     | P.S.I.              |
| 90  |      |      |      |      |        |      |        |      |      |      | P.S.I./100 ft       | 22.61                     | kPa/100m                  | kPa/100m                  | 0.0442                    | P.S.I./100 ft       |
| 95  |      |      |      |      |        |      |        |      |      |      | P.S.I.              | 0.07032                   | kilogram/cm <sup>2</sup>  | kilogram/cm <sup>2</sup>  | 14.22                     | P.S.I.              |
| 100 |      |      |      |      |        |      |        |      |      |      | <b>Energy:</b>      |                           |                           |                           |                           |                     |
|     |      |      |      |      |        |      |        |      |      |      | horsepower          | 0.746                     | kilowatts                 | kilowatts                 | 1.3410                    | horsepower          |

Note: Shaded areas of chart indicate velocities over 5' per second. Use caution to prevent water hammer.

### To Calculate Volume of Water in a Pond:

- Rectangular Shaped Pond Total U.S. Gal. = length x width x average depth x 7.5 x 0.8
- Circular Shaped Pond Total U.S. Gal. = diameter x 3.14 x average depth x 5.9 x 0.8
- Oval Shaped Pond Total U.S. Gal. = max. length x max. width x average depth x 5.9 x 0.8

### Friction Loss in Schedule 40 PVC

Velocity measured in ft / sec., PSI Loss Per 100 Feet of Pipe (PSI/100FT).

| GPM | 1/2" |      | 3/4" |      | 1"   |      | 1 1/4" |      | 1 1/2" |      | 2"   |      | 2 1/2" |      | 3"   |      | 4"   |      | GPM |
|-----|------|------|------|------|------|------|--------|------|--------|------|------|------|--------|------|------|------|------|------|-----|
|     | Vel. | Loss | Vel. | Loss | Vel. | Loss | Vel.   | Loss | Vel.   | Loss | Vel. | Loss | Vel.   | Loss | Vel. | Loss | Vel. | Loss |     |
| 1   | 1.1  | 0.4  | 0.6  | 0.1  |      |      |        |      |        |      |      |      |        |      |      |      |      |      | 1   |
| 2   | 2.1  | 1.6  | 1.2  | 0.4  | 0.7  | 0.1  |        |      |        |      |      |      |        |      |      |      |      |      | 2   |
| 3   | 3.2  | 3.3  | 1.8  | 0.8  | 1.1  | 0.3  | 0.6    | 0.1  |        |      |      |      |        |      |      |      |      |      | 3   |
| 4   | 4.2  | 5.6  | 2.4  | 1.4  | 1.5  | 0.4  | 0.9    | 0.1  | 0.6    | 0.1  |      |      |        |      |      |      |      |      | 4   |
| 5   | 5.3  | 8.5  | 3.0  | 2.2  | 1.9  | 0.7  | 1.1    | 0.2  | 0.8    | 0.1  |      |      |        |      |      |      |      |      | 5   |
| 6   | 6.3  | 11.9 | 3.6  | 3.0  | 2.2  | 0.9  | 1.3    | 0.3  | 0.9    | 0.1  |      |      |        |      |      |      |      |      | 6   |
| 7   | 7.4  | 15.8 | 4.2  | 4.0  | 2.6  | 1.2  | 1.5    | 0.3  | 1.1    | 0.2  | 0.7  | 0.1  |        |      |      |      |      |      | 7   |
| 8   | 8.4  | 20.2 | 4.8  | 5.1  | 3.0  | 1.6  | 1.7    | 0.4  | 1.3    | 0.2  | 0.8  | 0.1  |        |      |      |      |      |      | 8   |
| 9   | 9.5  | 25.1 | 5.4  | 6.4  | 3.3  | 2.0  | 1.9    | 0.5  | 1.4    | 0.3  | 0.9  | 0.1  |        |      |      |      |      |      | 9   |
| 10  | 10.6 | 30.5 | 6.0  | 7.8  | 3.7  | 2.4  | 2.1    | 0.6  | 1.6    | 0.3  | 1.0  | 0.1  |        |      |      |      |      |      | 10  |
| 12  | 12.7 | 42.8 | 7.2  | 10.9 | 4.5  | 3.7  | 2.6    | 0.9  | 1.9    | 0.4  | 1.2  | 0.1  | 0.8    | 0.1  |      |      |      |      | 12  |
| 14  | 14.8 | 56.9 | 8.4  | 14.5 | 5.2  | 4.5  | 3.0    | 1.2  | 2.2    | 0.6  | 1.3  | 0.2  | 0.9    | 0.1  |      |      |      |      | 14  |
| 16  | 16.9 | 72.9 | 9.6  | 18.5 | 5.9  | 5.7  | 3.4    | 1.5  | 2.5    | 0.7  | 1.5  | 0.2  | 1.1    | 0.1  |      |      |      |      | 16  |
| 18  | 19.0 | 90.6 | 10.8 | 23.1 | 6.7  | 7.1  | 3.9    | 1.9  | 2.8    | 0.9  | 1.7  | 0.3  | 1.2    | 0.1  |      |      |      |      | 18  |
| 20  |      |      | 12.0 | 28.0 | 7.4  | 8.7  | 4.3    | 2.3  | 3.2    | 1.1  | 1.9  | 0.3  | 1.3    | 0.1  | 0.9  | 0.1  |      |      | 20  |
| 22  |      |      | 13.2 | 33.4 | 8.2  | 10.3 | 4.7    | 2.7  | 3.5    | 1.3  | 2.1  | 0.4  | 1.5    | 0.2  | 1.0  | 0.1  |      |      | 22  |
| 24  |      |      | 14.4 | 39.3 | 8.9  | 12.1 | 5.1    | 3.2  | 3.8    | 1.5  | 2.3  | 0.5  | 1.6    | 0.2  | 1.0  | 0.1  |      |      | 24  |
| 26  |      |      | 15.6 | 45.6 | 9.6  | 14.1 | 5.6    | 3.7  | 4.1    | 1.8  | 2.5  | 0.5  | 1.7    | 0.2  | 1.1  | 0.1  |      |      | 26  |
| 28  |      |      | 16.8 | 52.3 | 10.4 | 16.2 | 6.0    | 4.3  | 4.4    | 2.0  | 2.7  | 0.6  | 1.9    | 0.3  | 1.2  | 0.1  |      |      | 28  |
| 30  |      |      | 18.0 | 59.4 | 11.1 | 18.4 | 6.4    | 4.8  | 4.7    | 2.3  | 2.9  | 0.7  | 2.0    | 0.3  | 1.3  | 0.1  |      |      | 30  |
| 35  |      |      | 19.2 | 66.9 | 13.0 | 24.4 | 7.5    | 6.4  | 5.5    | 3.0  | 3.3  | 0.9  | 2.3    | 0.4  | 1.5  | 0.1  |      |      | 35  |
| 40  |      |      |      |      | 14.8 | 31.3 | 8.6    | 8.2  | 6.3    | 3.9  | 3.8  | 1.2  | 2.7    | 0.5  | 1.7  | 0.2  |      |      | 40  |
| 45  |      |      |      |      | 16.7 | 38.9 | 9.6    | 10.2 | 7.1    | 4.8  | 4.3  | 1.4  | 3.0    | 0.6  | 2.0  | 0.2  | 1.1  | 0.1  | 45  |
| 50  |      |      |      |      | 18.5 | 47.3 | 10.7   | 12.4 | 7.9    | 5.9  | 4.8  | 1.7  | 3.4    | 0.7  | 2.2  | 0.3  | 1.3  | 0.1  | 50  |
| 55  |      |      |      |      |      |      | 11.9   | 14.8 | 8.7    | 7.0  | 5.3  | 2.1  | 3.7    | 0.9  | 2.4  | 0.4  | 1.4  | 0.1  | 55  |
| 60  |      |      |      |      |      |      | 12.9   | 17.4 | 9.4    | 8.2  | 5.7  | 2.4  | 4.0    | 1.0  | 2.6  | 0.4  | 1.5  | 0.1  | 60  |
| 65  |      |      |      |      |      |      | 13.9   | 20.2 | 10.2   | 9.6  | 6.2  | 2.8  | 4.4    | 1.2  | 2.8  | 0.5  | 1.6  | 0.1  | 65  |
| 70  |      |      |      |      |      |      | 15.0   | 23.2 | 11.0   | 11.0 | 6.7  | 3.3  | 4.7    | 1.4  | 3.0  | 0.5  | 1.8  | 0.1  | 70  |
| 75  |      |      |      |      |      |      | 16.1   | 26.4 | 11.8   | 12.5 | 7.2  | 3.7  | 5.0    | 1.6  | 3.3  | 0.5  | 1.9  | 0.1  | 75  |
| 80  |      |      |      |      |      |      | 17.1   | 29.7 | 12.6   | 14.0 | 7.6  | 4.2  | 5.4    | 1.8  | 3.5  | 0.6  | 2.0  | 0.2  | 80  |
| 85  |      |      |      |      |      |      | 18.2   | 33.2 | 13.4   | 15.7 | 8.1  | 4.7  | 5.7    | 2.0  | 3.7  | 0.7  | 2.1  | 0.2  | 85  |
| 90  |      |      |      |      |      |      | 19.3   | 37.0 | 14.2   | 17.5 | 8.6  | 5.2  | 6.0    | 2.2  | 3.9  | 0.8  | 2.3  | 0.2  | 90  |
| 95  |      |      |      |      |      |      |        |      | 15.0   | 19.3 | 9.1  | 5.7  | 6.4    | 2.4  | 4.1  | 0.8  | 2.4  | 0.2  | 95  |
| 100 |      |      |      |      |      |      |        |      | 15.7   | 21.2 | 9.6  | 6.3  | 6.7    | 2.7  | 4.3  | 0.9  | 2.5  | 0.3  | 100 |
| 120 |      |      |      |      |      |      |        |      | 18.9   | 29.7 | 11.5 | 8.8  | 8.0    | 3.7  | 5.2  | 1.3  | 3.0  | 0.3  | 120 |
| 140 |      |      |      |      |      |      |        |      |        |      | 13.4 | 11.7 | 9.4    | 4.9  | 6.1  | 1.7  | 3.5  | 0.5  | 140 |
| 160 |      |      |      |      |      |      |        |      |        |      | 15.3 | 15.0 | 10.7   | 6.3  | 6.9  | 2.2  | 4.0  | 0.6  | 160 |
| 180 |      |      |      |      |      |      |        |      |        |      | 17.2 | 18.7 | 12.1   | 7.9  | 7.8  | 2.7  | 4.5  | 0.7  | 180 |
| 200 |      |      |      |      |      |      |        |      |        |      | 19.1 | 22.7 | 13.4   | 9.6  | 8.7  | 3.3  | 5.0  | 0.9  | 200 |
| 225 |      |      |      |      |      |      |        |      |        |      |      |      | 15.1   | 11.9 | 9.8  | 4.1  | 5.7  | 1.1  | 225 |
| 250 |      |      |      |      |      |      |        |      |        |      |      |      | 16.7   | 14.5 | 10.8 | 5.0  | 6.3  | 1.3  | 250 |
| 275 |      |      |      |      |      |      |        |      |        |      |      |      | 18.4   | 17.3 | 11.9 | 6.0  | 7.0  | 1.6  | 275 |
| 300 |      |      |      |      |      |      |        |      |        |      |      |      |        |      | 13.0 | 7.0  | 7.6  | 1.9  | 300 |
| 350 |      |      |      |      |      |      |        |      |        |      |      |      |        |      | 15.2 | 9.4  | 8.8  | 2.5  | 350 |
| 400 |      |      |      |      |      |      |        |      |        |      |      |      |        |      | 17.3 | 12.0 | 10.1 | 3.2  | 400 |
| 500 |      |      |      |      |      |      |        |      |        |      |      |      |        |      |      |      | 12.6 | 4.8  | 500 |
| 600 |      |      |      |      |      |      |        |      |        |      |      |      |        |      |      |      | 15.1 | 6.8  | 600 |

Note: Shaded areas of chart indicate velocities over 5' per second. Use caution to prevent water hammer.



## Friction Loss in Class 160 (SDR 26) PVC Pipe

Velocity measured in ft / sec., PSI Loss Per 100 Feet of Pipe (PSI/100FT).

| GPM  | 1 ¼"   |      | 1 ½" |      | 2"   |      | 2 ½" |      | 3"   |      | 4"   |      | 6"   |      | 8"   |      | 10"  |      | GPM  |     |     |     |     |      |
|------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|------|
|      | Vel.   | Loss | Vel. | Loss | Vel. | Loss | Vel. | Loss | Vel. | Loss | Vel. | Loss | Vel. | Loss | Vel. | Loss | Vel. | Loss |      |     |     |     |     |      |
| 5    | 0.9  | 0.1  | 0.9  | 0.1  |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 5    |     |     |     |     |      |
| 10   | 1.7  | 0.4  | 1.3  | 0.2  | 0.9  | 0.1  |      |      |      |      |      |      |      |      |      |      |      |      | 10   |     |     |     |     |      |
| 15   | 2.6  | 0.8  | 2.0  | 0.4  | 1.3  | 0.1  | 0.9  | 0.1  |      |      |      |      |      |      |      |      |      |      | 15   |     |     |     |     |      |
| 20   | 3.5  | 1.4  | 2.7  | 0.7  | 1.7  | 0.2  | 1.2  | 0.1  |      |      |      |      |      |      |      |      |      |      | 20   |     |     |     |     |      |
| 25   | 4.4  | 2.1  | 3.3  | 1.1  | 2.1  | 0.4  | 1.5  | 0.1  | 1.0  | 0.1  |      |      |      |      |      |      |      |      | 25   |     |     |     |     |      |
| 30   | 5.2  | 2.9  | 4.0  | 1.5  | 2.6  | 0.5  | 1.7  | 0.2  | 1.2  | 0.1  |      |      |      |      |      |      |      |      | 30   |     |     |     |     |      |
| 35   | 6.1  | 3.9  | 4.6  | 2.0  | 3.0  | 0.7  | 2.0  | 0.3  | 1.4  | 0.1  |      |      |      |      |      |      |      |      | 35   |     |     |     |     |      |
| 40   | 7.0  | 5.0  | 5.3  | 2.6  | 3.4  | 0.9  | 2.3  | 0.3  | 1.6  | 0.1  |      |      |      |      |      |      |      |      | 40   |     |     |     |     |      |
| 45   | 7.8  | 6.2  | 5.9  | 3.2  | 3.8  | 1.1  | 2.6  | 0.4  | 1.8  | 0.2  | 1.1  | 0.1  |      |      |      |      |      |      | 45   |     |     |     |     |      |
| 50   | 8.7  | 7.5  | 6.6  | 3.9  | 4.2  | 1.3  | 2.9  | 0.5  | 2.0  | 0.2  | 1.2  | 0.1  |      |      |      |      |      |      | 50   |     |     |     |     |      |
| 55   | 9.6  | 8.9  | 7.3  | 4.6  | 4.7  | 1.6  | 3.1  | 0.6  | 2.2  | 0.2  | 1.3  | 0.1  |      |      |      |      |      |      | 55   |     |     |     |     |      |
| 60   | 10.4   | 10.5 | 8.0  | 5.4  | 5.1  | 1.8  | 3.5  | 0.7  | 2.4  | 0.3  | 1.4  | 0.1  |      |      |      |      |      |      | 60   |     |     |     |     |      |
| 65   |  |      | 8.6  | 6.3  | 5.5  | 2.1  | 3.8  | 0.8  | 2.5  | 0.3  | 1.5  | 0.1  |      |      |      |      |      |      | 65   |     |     |     |     |      |
| 70   |  |      | 9.3  | 7.2  | 5.9  | 2.4  | 4.1  | 1.0  | 2.7  | 0.4  | 1.7  | 0.1  |      |      |      |      |      |      | 70   |     |     |     |     |      |
| 75   |  |      | 10.0 | 8.2  | 6.4  | 2.8  | 4.3  | 1.1  | 2.9  | 0.4  | 1.8  | 0.1  |      |      |      |      |      |      | 75   |     |     |     |     |      |
| 80   |  |      |      |      | 6.8  | 3.1  | 4.6  | 1.2  | 3.1  | 0.5  | 1.9  | 0.1  |      |      |      |      |      |      | 80   |     |     |     |     |      |
| 85   |  |      |      |      | 7.2  | 3.5  | 4.9  | 1.4  | 3.3  | 0.5  | 2.0  | 0.2  |      |      |      |      |      |      | 85   |     |     |     |     |      |
| 90   |  |      |      |      | 7.6  | 3.9  | 5.2  | 1.5  | 3.5  | 0.6  | 2.1  | 0.2  |      |      |      |      |      |      | 90   |     |     |     |     |      |
| 95   |  |      |      |      | 8.1  | 4.3  | 5.5  | 1.7  | 3.7  | 0.7  | 2.3  | 0.2  |      |      |      |      |      |      | 95   |     |     |     |     |      |
| 100  |  |      |      |      | 8.5  | 4.7  | 5.8  | 1.9  | 3.9  | 0.7  | 2.4  | 0.2  |      |      |      |      |      |      | 100  |     |     |     |     |      |
| 110  |  |      |      |      | 9.3  | 5.6  | 6.4  | 2.2  | 4.3  | 0.9  | 2.6  | 0.3  |      |      |      |      |      |      | 110  |     |     |     |     |      |
| 120  |  |      |      |      | 10.3 | 6.6  | 7.0  | 2.6  | 4.7  | 1.0  | 2.8  | 0.3  |      |      |      |      |      |      | 120  |     |     |     |     |      |
| 130  |  |      |      |      |      |      | 7.5  | 3.0  | 5.1  | 1.2  | 3.1  | 0.3  |      |      |      |      |      |      | 130  |     |     |     |     |      |
| 140  |  |      |      |      |      |      | 8.1  | 3.5  | 5.5  | 1.3  | 3.3  | 0.4  |      |      |      |      |      |      | 140  |     |     |     |     |      |
| 150  |  |      |      |      |      |      | 8.7  | 3.9  | 5.9  | 1.5  | 3.6  | 0.5  |      |      |      |      |      |      | 150  |     |     |     |     |      |
| 160  |  |      |      |      |      |      | 9.3  | 4.4  | 6.3  | 1.7  | 3.8  | 0.5  |      |      |      |      |      |      | 160  |     |     |     |     |      |
| 170  |  |      |      |      |      |      | 9.8  | 5.0  | 6.7  | 1.9  | 4.0  | 0.6  | 1.9  | 0.1  |      |      |      |      | 170  |     |     |     |     |      |
| 180  |  |      |      |      |      |      | 10.4 | 5.5  | 7.0  | 2.1  | 4.3  | 0.6  | 2.0  | 0.1  |      |      |      |      | 180  |     |     |     |     |      |
| 190  |  |      |      |      |      |      |      |      | 7.4  | 2.4  | 4.5  | 0.7  | 2.1  | 0.1  |      |      |      |      | 190  |     |     |     |     |      |
| 200  |  |      |      |      |      |      |      |      | 7.8  | 2.6  | 4.7  | 0.8  | 2.2  | 0.1  |      |      |      |      | 200  |     |     |     |     |      |
| 225  |  |      |      |      |      |      |      |      | 8.8  | 3.2  | 5.3  | 1.0  | 2.5  | 0.1  |      |      |      |      | 225  |     |     |     |     |      |
| 250  |  |      |      |      |      |      |      |      | 9.8  | 3.9  | 5.9  | 1.2  | 2.7  | 0.2  |      |      |      |      | 250  |     |     |     |     |      |
| 275  |  |      |      |      |      |      |      |      | 10.8 | 4.7  | 6.5  | 1.4  | 3.0  | 0.2  | 1.8  | 0.1  |      |      | 275  |     |     |     |     |      |
| 300  |  |      |      |      |      |      |      |      |      |      | 7.1  | 1.6  | 3.3  | 0.3  | 1.9  | 0.1  |      |      | 300  |     |     |     |     |      |
| 325  |  |      |      |      |      |      |      |      |      |      | 7.7  | 1.9  | 3.6  | 0.3  | 2.1  | 0.1  |      |      | 325  |     |     |     |     |      |
| 350  |  |      |      |      |      |      |      |      |      |      | 8.3  | 2.1  | 3.8  | 0.3  | 2.3  | 0.1  |      |      | 350  |     |     |     |     |      |
| 375  |  |      |      |      |      |      |      |      |      |      | 8.9  | 2.4  | 4.1  | 0.4  | 2.4  | 0.1  |      |      | 375  |     |     |     |     |      |
| 400  |  |      |      |      |      |      |      |      |      |      | 9.5  | 2.8  | 4.4  | 0.4  | 2.6  | 0.1  |      |      | 400  |     |     |     |     |      |
| 450  |  |      |      |      |      |      |      |      |      |      | 10.6 | 3.4  | 4.9  | 0.5  | 2.9  | 0.1  | 1.9  | 0.1  | 450  |     |     |     |     |      |
| 500  |  |      |      |      |      |      |      |      |      |      |      |      | 5.5  | 0.6  | 3.2  | 0.2  | 2.1  | 0.1  | 500  |     |     |     |     |      |
| 600  | Note: Shaded areas of chart indicate velocities over 5' per second. Use caution to prevent water hammer. |      |      |      |      |      |      |      |      |      |      |      |      | 6.6  | 0.9  | 3.9  | 0.3  | 2.5  | 0.1  | 600 |     |     |     |      |
| 700  |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 7.6  | 1.18 | 4.5  | 0.3 | 2.9 | 0.1 | 700 |      |
| 800  |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 8.7  | 1.5  | 5.2 | 0.4 | 3.3 | 0.1 | 800  |
| 900  |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 9.8  | 1.9  | 5.8 | 0.5 | 3.7 | 0.2 | 900  |
| 1000 |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 10.9 | 2.3  | 6.4 | 0.6 | 4.1 | 0.2 | 1000 |
| 1250 |  |      |      |      |      |      |      |      |      |      |      |      |      |      | 8.1  | 1.0  | 5.2  | 0.3  | 1250 |     |     |     |     |      |
| 1500 |  |      |      |      |      |      |      |      |      |      |      |      |      |      | 9.7  | 1.3  | 6.2  | 0.5  | 1500 |     |     |     |     |      |

**Friction Loss in Aluminum Pipe with Couplers**  
 Velocity measured in ft / sec., PSI Loss Per 100 Feet of Pipe (PSI/100FT).

| GPM  | 2"   |      | 3"   |      | 4"   |      | 5"   |      | 6"   |      | 7"   |      | 8"   |      | 10"  |      | GPM  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | Vel. | Loss | Vel. | Loss | Vel. | Loss | Vel. | Loss | Vel. | Loss | Vel. | Loss | Vel. | Loss | Vel. | Loss |      |
| 5    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 5    |
| 10   | 1.0  | 0.1  |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 10   |
| 15   | 1.5  | 0.3  |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 15   |
| 20   | 2.0  | 0.6  |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 20   |
| 25   | 2.6  | 0.8  | 1.1  | 0.1  |      |      |      |      |      |      |      |      |      |      |      |      | 25   |
| 30   | 3.1  | 1.0  | 1.4  | 0.2  |      |      |      |      |      |      |      |      |      |      |      |      | 30   |
| 35   | 3.6  | 1.4  | 1.6  | 0.2  |      |      |      |      |      |      |      |      |      |      |      |      | 35   |
| 40   | 4.1  | 1.8  | 1.8  | 0.3  |      |      |      |      |      |      |      |      |      |      |      |      | 40   |
| 45   | 4.6  | 2.3  | 2.0  | 0.3  |      |      |      |      |      |      |      |      |      |      |      |      | 45   |
| 50   | 5.2  | 2.8  | 2.3  | 0.4  | 1.3  | 0.1  |      |      |      |      |      |      |      |      |      |      | 50   |
| 55   | 5.6  | 3.2  | 2.5  | 0.5  | 1.4  | 0.1  |      |      |      |      |      |      |      |      |      |      | 55   |
| 60   | 6.1  | 3.9  | 2.7  | 0.6  | 1.5  | 0.1  |      |      |      |      |      |      |      |      |      |      | 60   |
| 65   | 6.6  | 4.6  | 3.0  | 0.6  | 1.7  | 0.2  |      |      |      |      |      |      |      |      |      |      | 65   |
| 70   |      |      | 3.2  | 0.7  | 1.8  | 0.2  |      |      |      |      |      |      |      |      |      |      | 70   |
| 75   |      |      | 3.4  | 0.8  | 1.9  | 0.2  |      |      |      |      |      |      |      |      |      |      | 75   |
| 80   |      |      | 3.6  | 0.9  | 2.0  | 0.2  |      |      |      |      |      |      |      |      |      |      | 80   |
| 85   |      |      | 3.9  | 1.0  | 2.2  | 0.3  |      |      |      |      |      |      |      |      |      |      | 85   |
| 90   |      |      | 4.1  | 1.2  | 2.3  | 0.3  | 1.5  | 0.1  |      |      |      |      |      |      |      |      | 90   |
| 95   |      |      | 4.3  | 1.3  | 2.4  | 0.3  | 1.6  | 0.1  |      |      |      |      |      |      |      |      | 95   |
| 100  |      |      | 4.5  | 1.4  | 2.6  | 0.3  | 1.6  | 0.1  |      |      |      |      |      |      |      |      | 100  |
| 110  |      |      | 5.0  | 1.7  | 2.8  | 0.4  | 1.8  | 0.1  |      |      |      |      |      |      |      |      | 110  |
| 120  |      |      | 5.4  | 2.0  | 3.1  | 0.5  | 2.0  | 0.2  |      |      |      |      |      |      |      |      | 120  |
| 130  |      |      | 5.9  | 2.3  | 3.3  | 0.6  | 2.1  | 0.2  |      |      |      |      |      |      |      |      | 130  |
| 140  |      |      | 6.5  | 2.6  | 3.6  | 0.7  | 2.3  | 0.2  | 1.6  | 0.1  |      |      |      |      |      |      | 140  |
| 150  |      |      | 6.8  | 3.0  | 3.8  | 0.8  | 2.5  | 0.2  | 1.7  | 0.1  |      |      |      |      |      |      | 150  |
| 160  |      |      | 7.3  | 3.4  | 4.1  | 0.8  | 2.6  | 0.3  | 1.8  | 0.1  |      |      |      |      |      |      | 160  |
| 170  |      |      | 7.7  | 3.8  | 4.3  | 0.9  | 2.8  | 0.3  | 1.9  | 0.1  |      |      |      |      |      |      | 170  |
| 180  |      |      | 8.2  | 4.2  | 4.6  | 1.0  | 2.9  | 0.3  | 2.0  | 0.1  |      |      |      |      |      |      | 180  |
| 190  |      |      |      |      | 4.9  | 1.1  | 3.1  | 0.4  | 2.2  | 0.2  |      |      |      |      |      |      | 190  |
| 200  |      |      |      |      | 5.1  | 1.3  | 3.3  | 0.4  | 2.3  | 0.2  | 1.7  | 0.1  |      |      |      |      | 200  |
| 225  |      |      |      |      | 5.7  | 1.6  | 3.7  | 0.5  | 2.6  | 0.2  | 1.9  | 0.1  |      |      |      |      | 225  |
| 250  |      |      |      |      | 6.4  | 1.9  | 4.1  | 0.6  | 2.8  | 0.3  | 2.1  | 0.1  |      |      |      |      | 250  |
| 275  |      |      |      |      | 7.0  | 2.3  | 4.5  | 0.7  | 3.1  | 0.3  | 2.3  | 0.2  |      |      |      |      | 275  |
| 300  |      |      |      |      | 7.7  | 2.7  | 4.9  | 0.9  | 3.4  | 0.4  | 2.5  | 0.2  | 1.9  | 0.1  |      |      | 300  |
| 325  |      |      |      |      | 8.3  | 3.1  | 5.3  | 1.1  | 3.7  | 0.4  | 2.7  | 0.2  | 2.1  | 0.1  |      |      | 325  |
| 350  |      |      |      |      |      |      | 5.7  | 1.2  | 4.0  | 0.5  | 2.9  | 0.2  | 2.2  | 0.1  |      |      | 350  |
| 375  |      |      |      |      |      |      | 6.1  | 1.4  | 4.3  | 0.6  | 3.1  | 0.3  | 2.4  | 0.1  |      |      | 375  |
| 400  |      |      |      |      |      |      | 6.5  | 1.5  | 4.5  | 0.7  | 3.3  | 0.3  | 2.6  | 0.2  |      |      | 400  |
| 450  |      |      |      |      |      |      | 7.3  | 1.9  | 5.1  | 0.8  | 3.8  | 0.4  | 2.9  | 0.2  |      |      | 450  |
| 500  |      |      |      |      |      |      | 8.2  | 2.3  | 5.7  | 0.9  | 4.2  | 0.4  | 3.2  | 0.2  | 2.0  | 0.1  | 500  |
| 600  |      |      |      |      |      |      |      |      | 6.8  | 1.3  | 5.0  | 0.6  | 3.8  | 0.3  | 2.5  | 0.1  | 600  |
| 700  |      |      |      |      |      |      |      |      | 7.1  | 1.7  | 5.8  | 0.8  | 4.5  | 0.4  | 3.1  | 0.2  | 700  |
| 800  |      |      |      |      |      |      |      |      | 9.1  | 2.3  | 6.7  | 1.1  | 5.1  | 0.6  | 3.3  | 0.2  | 800  |
| 900  |      |      |      |      |      |      |      |      |      |      | 7.5  | 1.3  | 5.7  | 0.7  | 3.7  | 0.2  | 900  |
| 1000 |      |      |      |      |      |      |      |      |      |      | 8.3  | 1.6  | 6.4  | 0.8  | 4.1  | 0.3  | 1000 |
| 1250 |      |      |      |      |      |      |      |      |      |      |      |      | 8.0  | 1.3  | 5.1  | 0.4  | 1250 |
| 1500 |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 6.1  | 0.6  | 1500 |

Note: Shaded areas of chart indicate velocities over 5' per second. Use caution to prevent water hammer.



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