OCTA-BUBBLER

World Leader in Irrigation Technology

JAIN

Octa-Bubbler

Product Features

- 8-Port Pressure Compensating Manifold
- Removable diaphragm for easy maintenance
- Optional port plugs for unused ports
- Suitable for retrofitting zones
- Interchangeable color-coded flow control inserts
- For installation above grade, in a Bubbler Box or in a green house
- Color-coded Flow ID
- Port elbows swivel 90 degrees

Filtration Requirements

Minimum filtration is 150 mesh. In addition to filtration, control of algae and bacterial slime growth and control of chemical precipitates should be taken into consideration.

Your Natural Choice for Drought Tolerant Landscapes and Indoor Growrooms

JAIN Octa-Bubbler pressure compensating drip manifolds are designed to distribute consistent amounts of water through each port, even in the event of pressure fluctuations.

Durable internal component design makes maintenance and flushing easy. Internal components are available in a seperate "Octa-Bubbler Repair Kit" and contain the following:

- Diaphragm Stabilizer
- Upper Diaphragm
- Lower Diaphragm
- Cap O-Ring

72130177

72500729

72500731

72500732

72500730

Octa-Bubbler Specification Details

Color	Operating Pressure	Flow / Outlet	Ports	Inlet Size
Blue	20-60psi	2 GPH	8	1/2"
Black	20-60psi	6 GPH	8	1/2"
Red	20-60psi	10 GPH	8	1/2"
Green	20-60psi	20 GPH	8	1/2"

Part #	Model #	Description	Bag Qty	Box Qty
Octa-Bubbler - 8 Swivel Ports, Pressure Compensating, 1/2" FPT Inlet, .250" Barbed Outlet				
72500729	OCT816	Octa-Bubbler 2 GPH per outlet, Blue low flow bubbler	10	30
72500731	OCT856	Octa-Bubbler 6 GPH per outlet, Black medium flow bubbler	10	30
72500732	OCT896	Octa-Bubbler 10 GPH per outlet, Red high flow bubbler	10	30
72500730	OCT8186	Octa-Bubbler 20 GPH per outlet, Green extra high flow bubbler	10	30

Octa-Bubbler Components

Flow Control Devices

The Octa-Bubbler's flow is controlled by flow control inserts. Inserts are available in 2, 6, 10 and 20 gallons per hour. Flow inserts are interchangeable and can be purchased in packs of 8.

Flow Inserts

Part Number	Model Number	Description	Bag Qty	Box Qty
72500623	FCD8160	Octa-Bubbler 2 GPH Flow Control Device - Blue	8	480
72500625	FCD8560	Octa-Bubbler 6 GPH Flow Control Device - Black	8	480
72500970	FCD8960	Octa-Bubbler 10 GPH Flow Control Device - Red	8	480
72500624	FCD8860	Octa-Bubbler 20 GPH Flow Control Device - Green	8	480

Internal Diaphragms and O-Ring

Minimum filtration is 150 mesh. In addition to filtration, control of algae and bacterial slime growth and control of chemical precipitates should be taken into consideration.

Octa-Bubbler Repair Kit

Part Number	Model Number	Description	Bag Qty	Box Qty
72500007	OB-RK	Octa-Bubbler Repair Kit; 2 Diaphragms, O-Ring and Diaphragm Holder	25	2000

Optional Port Plugs

If 8 ports are not necessary, port plugs can be used to cap off individual flow paths. Port plugs push on to 1/4" port outlets and can be reused.

Port Plugs

Part Number	Model Number	Description	Bag Qty	Box Qty
72500619	BA-PP-OB	Port Plugs for Octa-Bubbler	25	2000

Octa-Bubbler Manifolds

Product Features

- Rugged components
- Pointer handle on ball valve
- Pre-assembly maximizes labor savings
- Assists in design consistency

Specifications

- Minimum filtration—150 mesh
- Teflon tape wrapped threads
- 1/2" Ball Valve
- 3" x 1/2" Riser (Bottom)
- 4" x 1/2" Riser (Top)

Why pre-assembled manifolds?

While assembling a few pieces together may seem...elementary, the time they take to assemble is valuable time growers could be using on more pressing matters. For this reason, JAIN has absorbed the burden of time consuming production lines and now offers premade assemblies.

Each assembly comes complete with two rigid risers, PVC tee and a ball valve for flow control and shutoff.

PVC Tee

3" Riser

PVC Tee

4" Riser

Octa-Bubbler Pre-Assembled Manifolds

Part #	Model #	Description	Baq Qty	Box Qty
72501341	OB-MNFLD0612	6 GPH Octa-Bubbler Manifold with 1/2" ball valve and 1/2" Tee	10	30
72501342	OB-MNFLD1012	10GPH Octa-Bubbler Manifold with 1/2" ball valve and 1/2" Tee	10	30
72501347	OB-MNFLD0634	6 GPH Octa-Bubbler Manifold with 1/2" ball valve and 3/4" Tee	10	30
72501348	OB-MNFLD1034	10GPH Octa-Bubbler Manifold with 1/2" ball valve and 3/4" Tee	10	30
72501358	OB-MNFLD1001	10GPH Octa-Bubbler Manifold with 1/2" ball valve and 1" Tee	10	30
72501352	OB-MNFLD1114	10GPH Octa-Bubbler Manifold with 1/2" ball valve and 1 1/4" Tee	10	30
22020080	OB-MNFLD12	Manifold with 1/2" ball valve and 1/2" Tee (No Octa-Bubbler)	10	30
22020083	OB-MNFLD01	Manifold with 1/2" ball valve and 1" Tee (No Octa-Bubbler)	10	30
22020082	OB-MNFLD114	Manifold with 1/2" ball valve and 1 1/4" Tee (No Octa-Bubbler)	10	30

Octa-Bubbler FAQs

Over time Octa-Bubblers can require some simple maintenance to keep them distributing water efficiently and effectively for seasons to come. Here are some popular questions we receive from growers. We hope you will find them useful.

Q: What is the ideal pressure for consistent flow out of each individual port?

A: Octa-Bubblers have an operating pressure range of 20–60 PSI. Too much pressure will lead to some ports putting out more water than others. If the pressure is high enough ports will seal up completely; remedy this issue by lowering pressure.

Q: Why am I getting different flows out of each port?

A: There are a couple reasons this may be occuring but neither represent a failure on the part of the Octa-Bubbler. Like most pressure compensating devices, the Octa-Bubbler uses diaphragms to control the amount of pressure coming into the manifold's stem. If the combination of the two diaphragms does not see a consistent amount of pressure, the diaphragms will not seal up properly and allow water to pass evenly.

Q: How many Octa-Bubblers can I install on a single control valve?

A: This question is more dependent on variables that the Octa-Bubbler will only be responding to. These variables include; pump output, lateral length and size, Octa-Bubbler flow and reservoir size.

Pump Output: Pump inlet and outlet sizes are provided for a reason. Pumps are designed to move water through a given pipe size with the energy at hand. To keep pressure stable and consistent, pipe sizes should never be bigger than the outlet on a pump. For example, a pump that provides a 1" output should not have any pipe or fittings larger than 1" throughout.

Lateral Length: With every inch water travels through rigid PVC, vinyl or Polyetyhlene tubing, pressure is lost and water slows down. **"Friction loss"** as it's called is measureable and a very common reference chart. Along with component demands, friction loss must be taken into account when designing a system.

Lateral Size: While a larger diameter pipe may seem like it's going to move more water through the lines, keep in mind the water needs the right amount of energy behind it, or pressure, to fill the lines properly. A common mistake is to oversize the lateral lines without providing a larger reservoir or source of water. The problem this causes is unequal water distribution. Play it safe and keep lines at 1" or below on indoor systems to insure the system does not have to work too hard filling lines and keeping pressure stable.

Octa-Bubbler Flow: Each Octa-Bubbler not only requires an operating pressure between 20 and 60 PSI but also a consistent supply of water. While a pump may provide the pressure you see on a pressure gauge, the pressure reading does not necessarily mean it is water pressure; there can still be some air taking up the reading. A full reservoir may have no problem providing water to a system, but as the reservoir levels get lower the pump may struggle to keep lines pressurized with water. Eliminate this risk by keeping larger reservoirs on systems and not letting levels get all the way down.

Reservoir Size: As mentioned above, to keep a system stable with water demand and pressure demand use a reservoir that will not run completely dry every cycle. Pumps also use water to cool their seals, if water is too thick with organics that friction could cause cooling issues. Keeping water and organics at a safe ratio will insure longer pump life and irrigation system component life.

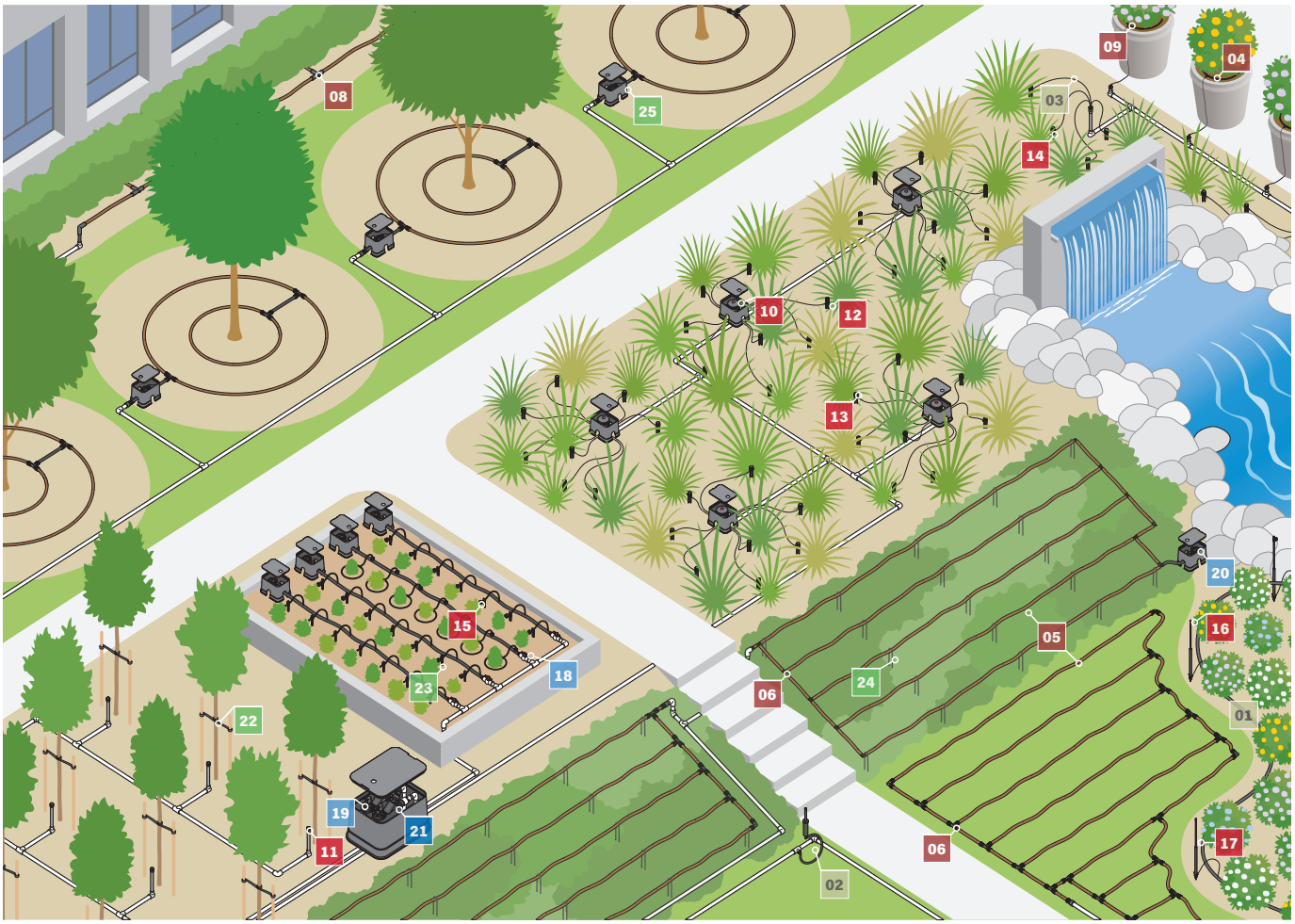
Correct Octa-Bubbler Maintenance

Step One: Remove cap by unscrewing counter clockwise

Step Two: Remove diaphragm stabilizer and diaphragm

Step Three: With the diaphragm and stabilizer removed, the flow inserts can be replaced

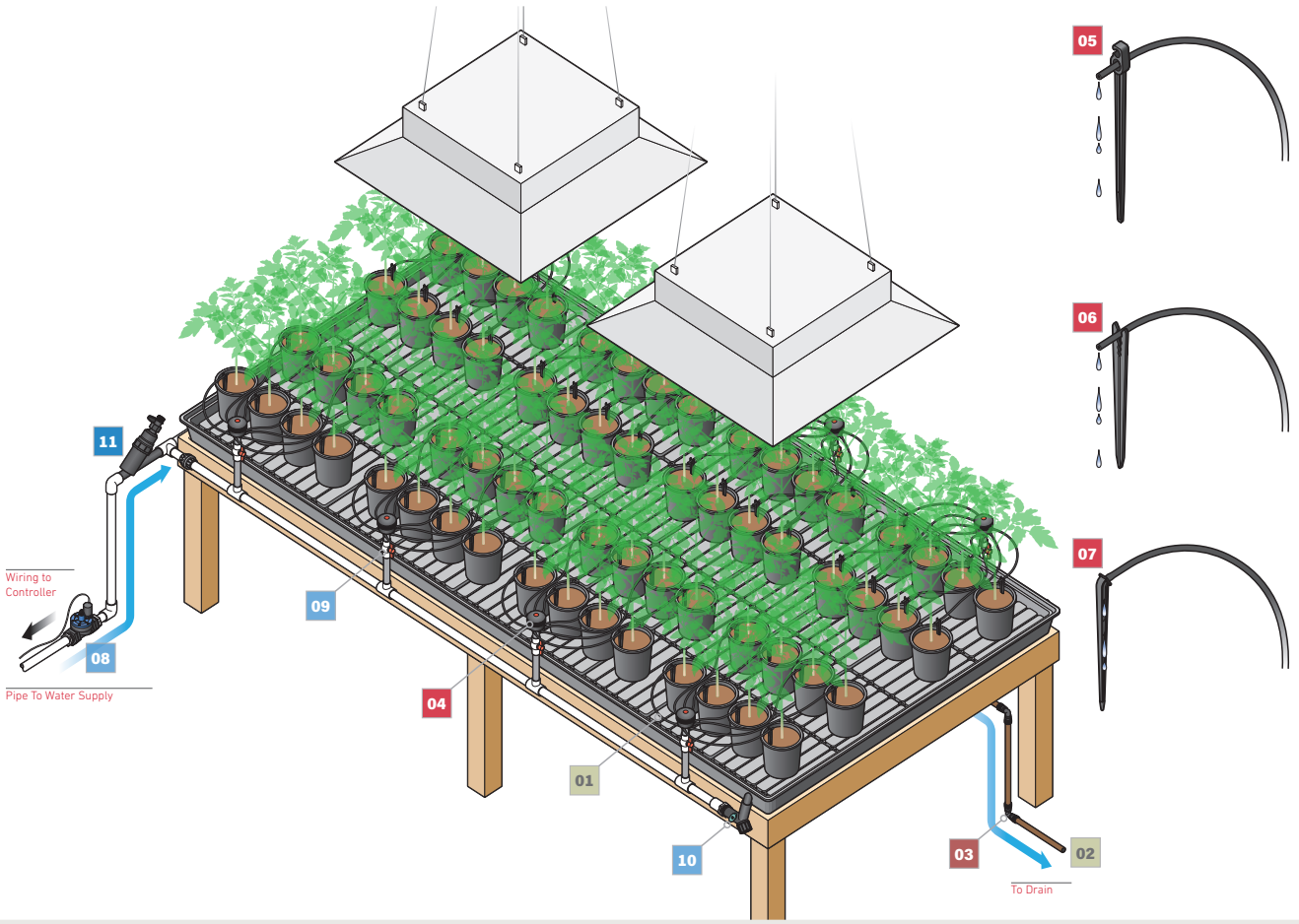
JAIN High-Efficiency Irrigation System Layout



Supply Tubing		Part No.
01	Supply Tubing	71200017
02	Swing Pipe	71230004
03	1/4" Bubbler Tubing	71500155
Emitterline and Fittings		
04	1/4" Emitterline	71500880
05	Total CV Emitterline	71591307
06	Power-Loc Fittings	
07	Insert Fittings	
08	Compression Fittings	
09	1/4" Barbed Fittings	
Emission Devices		
10	Octa-Bubbler	72500729
11	J-Bubbler PC	72500582
12	Shrubbler	72503125
13	Mini-Bubbler	72015008
14	Spectrum Vortex Sprayer	72015011
15	Clik Tif (Button Emitter)	32020420
16	Aqua Jet	12500801
17	Micro-Pop	72500740

Valves		
18	1" Ball Valve	12220120
19	1" JAIN Control Valve	14103012
20	Auto Flush-Air Relief Valve	12060701
Filtration and Pressure Regulation		
21	1" Commercial Filter Kit	72131303
Accessories and Tools		
22	Tree Ties	71240005
23	1/4" Indicator Stakes	72290042
24	Landscape Staples	72500527
25	Bubbler Box	72500621

JAIN Indoor Octa-Bubbler Manifold Layout



Supply Tubing		Part No.
01	1/4" Bubbler Tubing	71500155
02	Total CV Blank Supply Tubing	71200503
Emitterline and Fittings		
03	Power Loc Elbow	72050304
Emission Devices		
04	10 gph Octa-Bubbler	72500732
05	1/8" Locator Stake	72290043
06	1/4" Indicator Stake	72290042
07	Arrow Dripper	12602840
Valves		
08	1" Automatic Control Valve	14103012
09	1/2" Ball Valve	12220110
10	Ball Valve with Screen Clean	12060043
Filtration and Pressure Regulation		
11	1" Spin Clean Filter	72130111

Jain is a fully integrated global food / plant production company recognized by Harvard Business to be one of five global sustainability champions, the G-20 for lifting people out of poverty, and Fortune magazine for being a "Change the World Company." Our irrigation manufacturing capabilities include everything from behind the pump to the flush valve at the end of the lateral and everything in between. We lead the industry in manufacturing technology, owning both our extrusion and mold manufacturing equipment providers.

Jain leads plant science research globally across a variety of food crops and is staffed with some of the world's leading research scientists. With the Gandhi Library, Jain now houses the leading collection of the world's best plant science knowledge in a single facility. Our agronomic knowledge is integrated from our world class plant tissue culture operations through our food processing businesses. We research, educate, advance, manufacture, finance, propagate plants, and purchase produce for processing all in an effort to fulfill the Jain mission:

"Leave This World Better Than You Found It"

Jain Irrigation, Inc.
www.jainsusa.com

Jain Customer Service
Phone: (559) 485-7171
Fax: (800) 777-6162

Western Manufacturing Facility
2851 E. Florence Ave.
Fresno, CA 93721

Southeastern Manufacturing Facility
3777 East State Road 544
Haines City, FL 33845

Northeastern Manufacturing Facility
740 Water St.
Watertown, NY 13601

jainsusa @jainsusa @jainsusa