

WS1.5PCI

**WATER
SPECIALIST
CONTROL
VALVE**



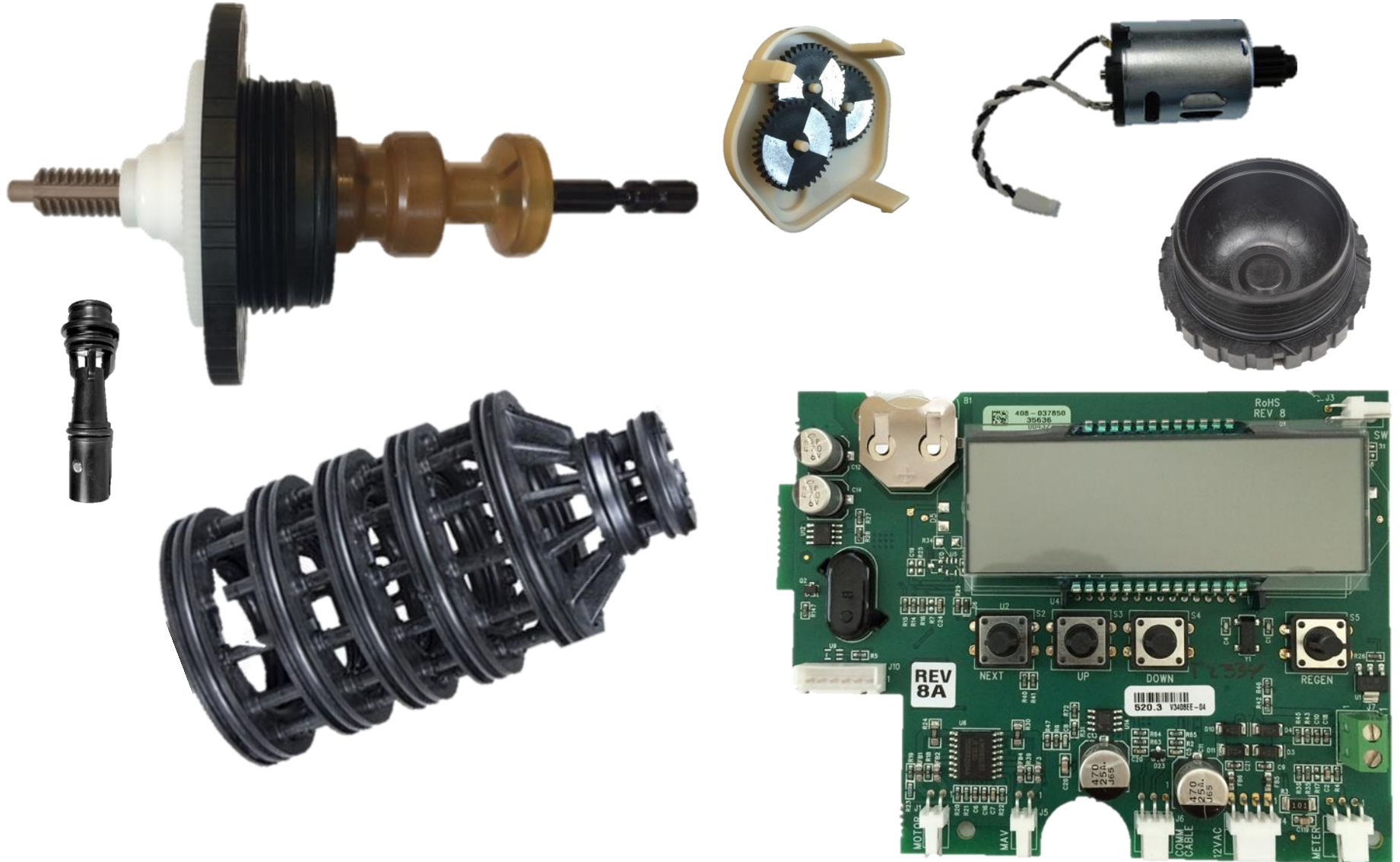
Inlet/Outlet Fitting Kit not included

Valve Specifications

- **Inlet / Outlet:**
1 ½" QC Male Connection
- **Projected Service Flow:**
13.6 m³/h @ 1 bar drop
- **Projected Backwash Flow:**
9.8 m³/h @ 1.7 bar drop
- **Tank Applications:**
 - Water Softener:
12" – 24" Diameter tank
 - Filter @ 10 gpm/sq. ft. :
12" – 24" Diameter tank
- **Operating Pressures:**
Minimum / Maximum
@ 1.4 bar – 8.6 bar
- **Distributor Pilot:**
50 mm OD
- **Drain Line Flow Control**
incorporated into Drain Port



UTILIZES THE SAME PARTS AS THE WS1.5 BRASS VALVE



Clack 1 1/2" Plastic Meter Assembly With QC to BSPT Fitting Kit



1 1/2" Plastic Meter Assembly
with QC to BSPT Plumbing Adapter Kit
V3045BSPT or V3045BSPT-15

Clack 1 1/2" Plastic Meter Assembly With QC to QC Adapter Fitting Kit



1 1/2" Plastic Meter Assembly
with QC to QC Fitting Assembly
V3045QC or V3045QC-15

Clack 1 1/2" Plastic Plumbing Adapter Kits

1 1/2" Plastic QC to BSPT Kit
V4430-02



1 1/2" Plastic Fitting Assembly
QC to QC
V4430-03

! The valve is delivered without Clack fittings

Clack 1 1/2" Plastic Plumbing Adapter Kits

1 1/2" QC to QC Fitting Elbow
V4430-09



1 1/2" QC to BSPT Elbow Kit
V4430-08

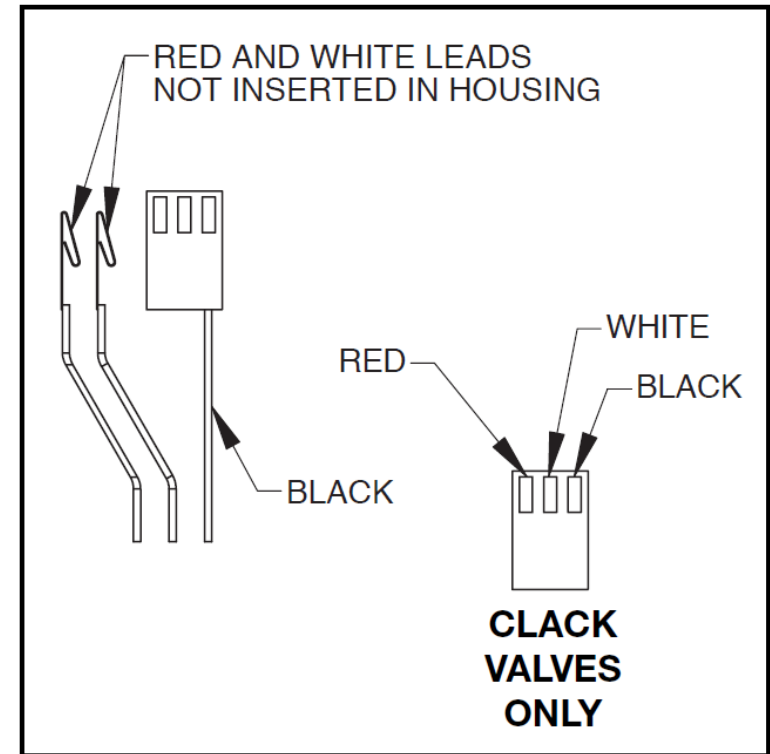
Clack 1 ½” Plastic Meter Assembly Wiring And Pulse Rate

Wiring:

- The meter must be supplied with a DC voltage between 4 and 24 volts
- The RED wire is positive
- The BLACK wire is negative
- The WHITE wire is the meter output

Calibration/Specs:

WS1.5 & WS1.5P	Select 1.5 in the “FL” programming parameter for the correct meter pulse reading.
Meter Pulses	37 Pulses/Gallon 9.8 Pulses/Liter
Meter Accuracy	Flow: 0.75 – 75 gpm ± 5% Output Signal: 0.4 Hz – 47.5 Hz NOTE: Not all flow monitors will register accurately at the specified specs of this meter. Contact your monitor manufacture for limitations.
Pressure Drop	2.7 PSID @ 75 gpm



Clack 1 1/2" Plastic Control Valve Accessories



1 1/2" Plastic No Hard
Water Bypass Valve
V3035

1 1/2" Plastic Motorized
Alternating Valve
V3034

! The NHWBP and MAV are delivered without Clack fittings

Injector Housing Components



Injector
V3010-15_

Injector Screen
V4120 **NEW**



Injector Plug
V3010-15Z

Injector Feed Plug
V4350-15Z **NEW**



Downflow Brining Component Locations

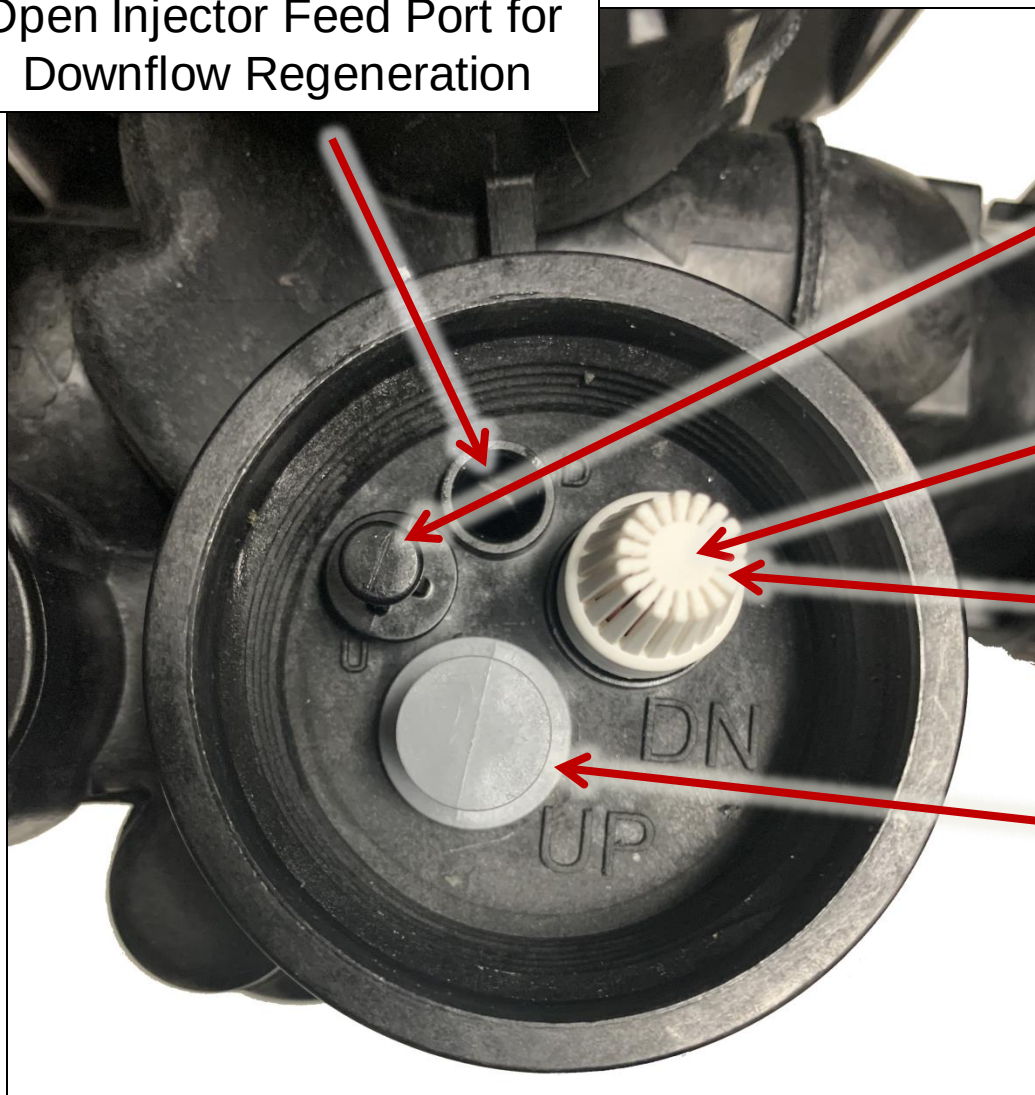
Open Injector Feed Port for
Downflow Regeneration

Injector Feed Plug
V4350-15Z **NEW**

Injector Assembly
V3010-15_

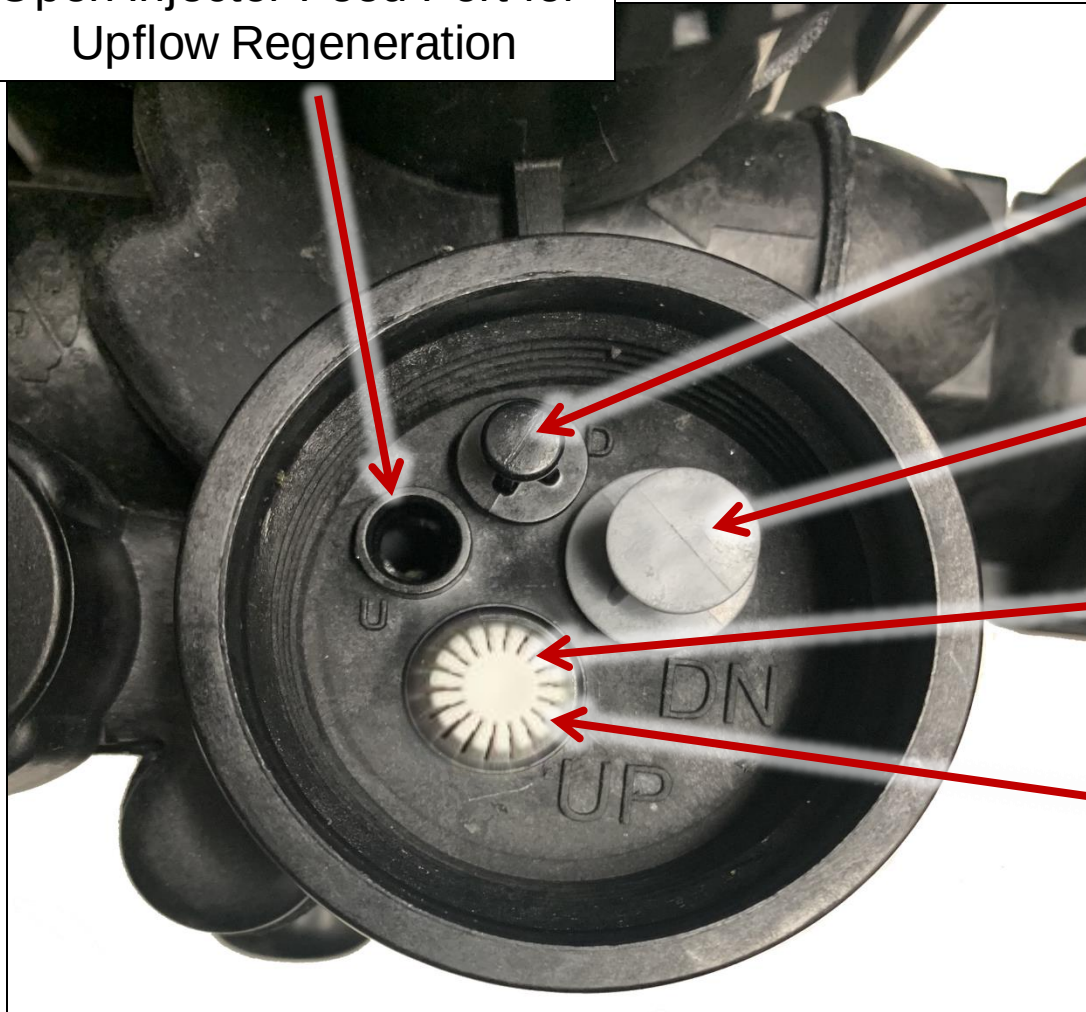
Injector Screen
V4120 **NEW**

Injector Plug
V3010-15Z



Upflow Brining Component Locations

Open Injector Feed Port for
Upflow Regeneration



Injector Feed Plug
V4350-15Z **NEW**

Injector Plug
V3010-15Z

Injector Screen
V4120 **NEW**

Injector Assembly
V3010-15_

New Style Injector Cap

Old Style Injector Cap
for 1 ½" Brass
Control Valve
V3176

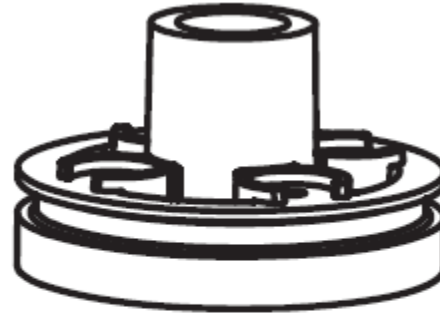


New Style Injector Cap
for 1 ½" Plastic
& Brass Control Valves
V4349



Internal Drain Line Flow Control

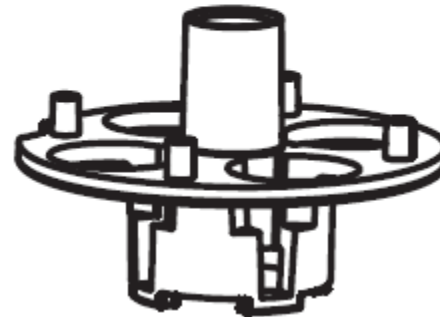
Internal Drain Line Flow
Control Washer Retainer



Upper Retainer



Retainer Oring



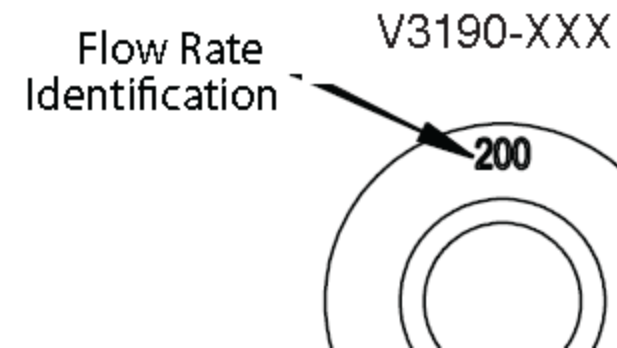
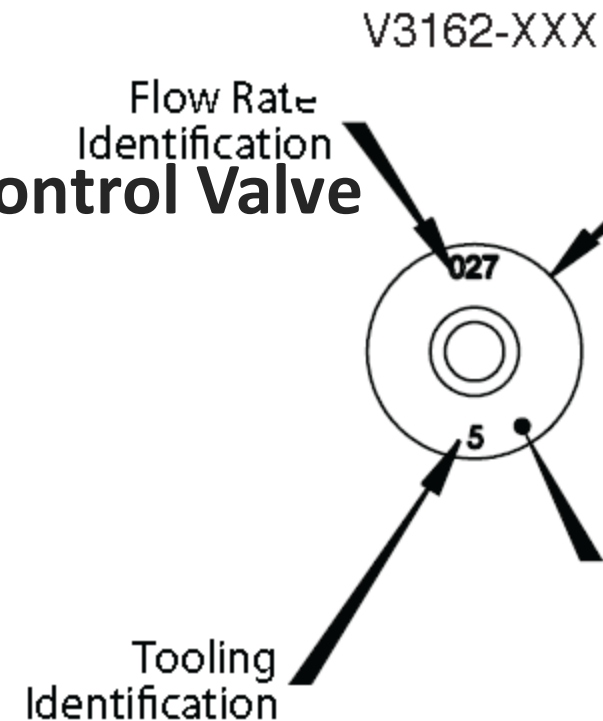
Lower Retainer

DRAIN LINE FLOW CONTROL WASHERS

Internal Drain Line Flow Control

Order No.	Description
V3162-007	.7 GPM Drain line flow control
V3162-010	1.0 GPM Drain line flow control
V3162-013	1.3 GPM Drain line flow control
V3162-017	1.7 GPM Drain line flow control
V3162-022	2.2 GPM Drain line flow control
V3162-027	2.7 GPM Drain line flow control
V3162-032	3.2 GPM Drain line flow control
V3162-042	4.2 GPM Drain line flow control
V3162-053	5.3 GPM Drain line flow control
V3162-065	6.5 GPM Drain line flow control
V3162-075	7.5 GPM Drain line flow control
V3162-090	9.0 GPM Drain line flow control
V3162-100	10.0 GPM Drain line flow control
V3190-090	9.0 GPM Drain line flow control
V3190-100	10.0 GPM Drain line flow control
V3190-110	11.0 GPM Drain line flow control
V3190-130	13.0 GPM Drain line flow control
V3190-150	15.0 GPM Drain line flow control

Use up to 5 - V3162-XXX in WS15P Control Valve

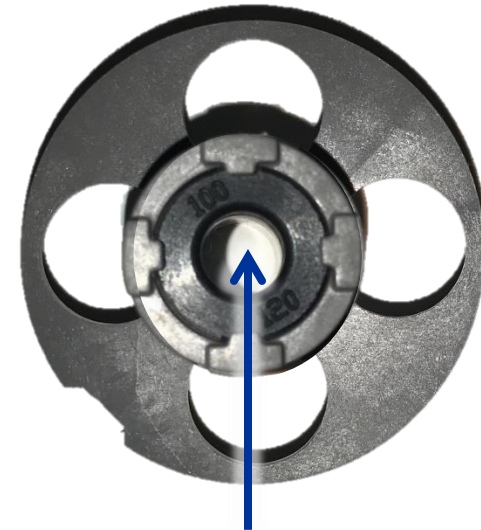


Internal Drain Line Flow Control

Punch or Drill the Holes needed to install the proper number of small DLFC Washers in the upper section of the retainer to achieve the necessary Backwash Flow Rate



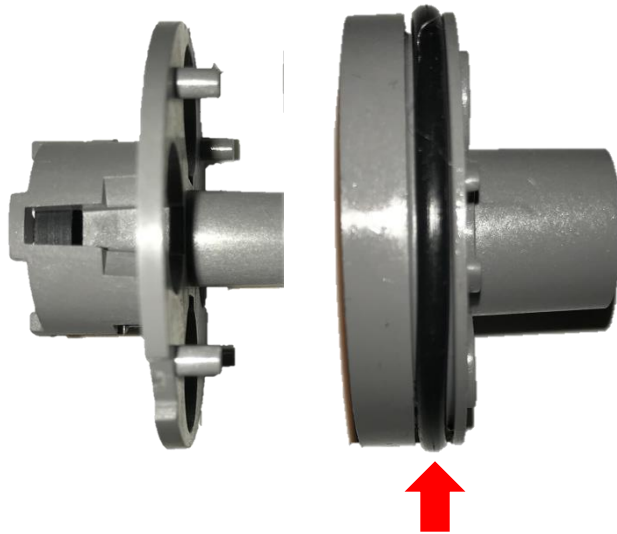
This example shows 4 – 10 gpm DLFC Washers used to achieve a 40 gpm Backwash Flow Rate



The lower section of the retainer will be open and does not need to be drilled out.

Internal Drain Line Flow Control

Internal Drain Line Flow
Control Retainer Assembly



Lubricate O-ring with Silicone



Press fit the 4 pins on the lower retainer
into the 4 holes on the upper retainer

Internal Drain Line Flow Control

Lubricate the
internal bore of
the drain port



Internal Drain Line Flow Control



Internal Drain Line Flow Control

Top View of the WS1.5P Control Valve



Tighten the Drain Line Elbow and Nut to secure the Drain Line Flow Control Retainer into the Valve Body

