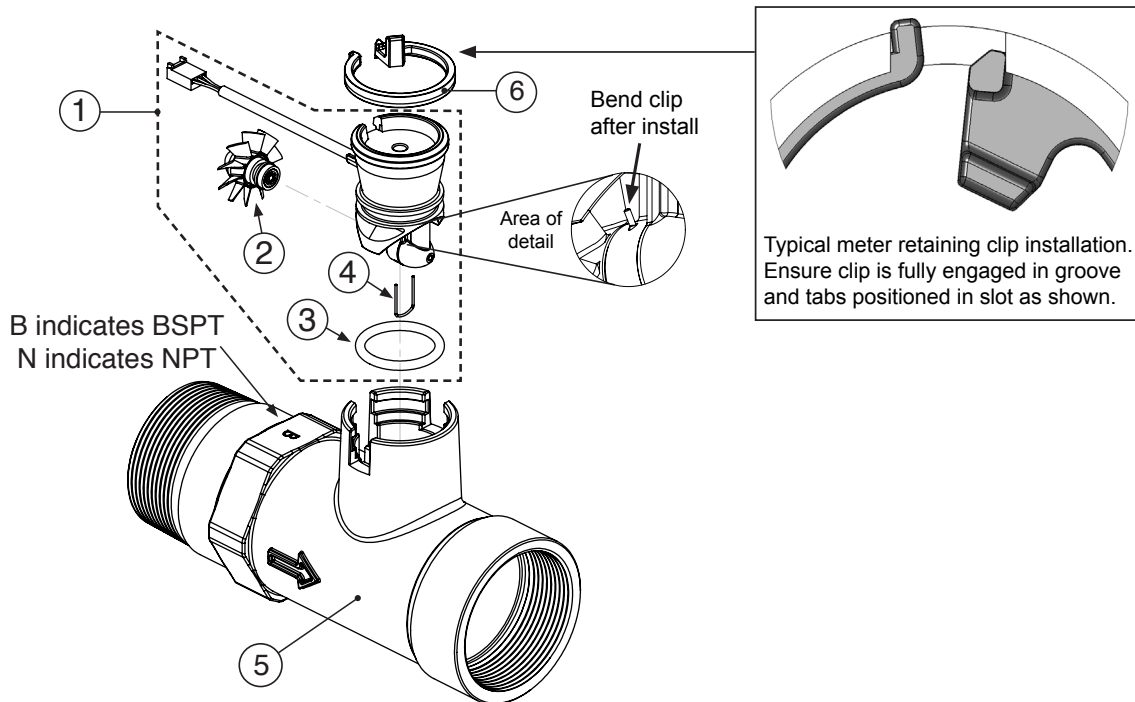


**V3094 WS2 METER ASY NPT MXF, V3094BSPT WS2 METER ASY BSPT MXF,
V3094-15 WS2 METER ASY NPT MXF 15FT and V3094BSPT-15 WS2 METER ASY BSPT MXF 15FT**

Service or replace the turbine by:

1. Turn the bypass for the system off and relieve the pressure on the system.
2. Press downward on the remote meter assembly to relieve tension on the retaining clip V3632. Remove the clip and take the meter assembly out of the housing.
3. Remove the bend from the two exposed tips of the retaining clip V3501 and remove clip.
4. Service or replace the V3118-03 WS15/2 Turbine Assembly and place it back in the turbine shaft.
5. Insert the V3501 WS15/2 Turbine Clip and re-bend the exposed ends of the clip. The V3118-03 turbine has a groove to line up with the V3501 WS15/2 Turbine Clip.
6. Insert meter assembly back into the meter housing.
7. Re-install the meter retaining clip V3632 as shown above (or the U-shaped V3223 WS2 Meter Clip).
8. Open the bypass for the system slowly to bring back into service and check to be sure you have no water leaks.



Drawing No.	Order No.	Description	V3094	V3094BSPT	V3094-15	V3094BSPT-15
1	V3003-02	WS1.5/2L/2H METER COMMERCLASY (includes V3118-03, V3501 and V3105 cord length 28")	1	1		
	V3221	WS Remote Meter Asy 15 Ft Cord (includes V3118-03, V3501 and V3105)			1	1
2	V3118-03	WS15/2 TURBINE ASY	1	1	1	1
3	V3105	O-RING 215	1	1	1	1
4	V3501	WS15/2 TURBINE CLIP	1	1	1	1
5	V3754-01	WS2 METER HOUSING NPT MxF	1		1	
	V3754BSPT-01	WS2 METER HOUSING BSPT MxF		1		1
6	V3632*	WS15/2/3 METER RETAINING CLIP	1	1	1	1
Not Shown	V3488	WS2 FLOW STRAIGHTENER (located inside meter housing)	1	1	1	1

* In 2008 a modification was made to Meter Housings to use V3632 WS1.5/2/3 Meter Retaining Clip. Do not use V3632 on old style housings which have holes through the castings to accept the U-shaped V3223 WS2 Meter Clip.

**V3094 WS2 METER ASY NPT MXF, V3094BSPT WS2 METER ASY BSPT MXF,
V3094-15 WS2 METER ASY NPT MXF 15FT and V3094BSPT-15 WS2 METER ASY BSPT MXF 15FT**

Installation

Installation of the WS2 Meter NPT Assembly can be accomplished with 2" NPT pipe.

WHEN INSTALLING THE METER, MAKE SURE THE ARROW ON THE METER BODY IS GOING THE SAME DIRECTION AS THE WATER FLOW. THE METER CAN BE INSTALLED IN HORIZONTAL OR "UPFLOW" VERTICAL APPLICATIONS.

HYDROCARBONS SUCH AS KEROSENE, BENZENE, GASOLINE, ETC., MAY DAMAGE PRODUCTS THAT CONTAIN O-RINGS OR PLASTIC COMPONENTS. EXPOSURE TO SUCH HYDROCARBONS MAY CAUSE THE PRODUCTS TO LEAK. DO NOT USE THE PRODUCT(S) CONTAINED IN THIS DOCUMENT ON WATER SUPPLIES THAT CONTAIN HYDROCARBONS SUCH AS KEROSENE, BENZENE, GASOLINE, ETC.

THIS WATER METER SHOULD NOT BE USED AS THE PRIMARY MONITORING DEVICE FOR CRITICAL OR HEALTH EFFECT APPLICATIONS.

OPERATING PRESSURES: 20 PSI MINIMUM - 125 PSI MAXIMUM (1.4 - 8.6 bar)

OPERATING TEMPERATURE 40°F MINIMUM - 110°F MAXIMUM (4° - 43°C)

The 22 gauge wire crimp terminals are Molex Series 41572 or 40445. The housing connector is Molex Series 2695 White Housing, P/N 22-01-3037.

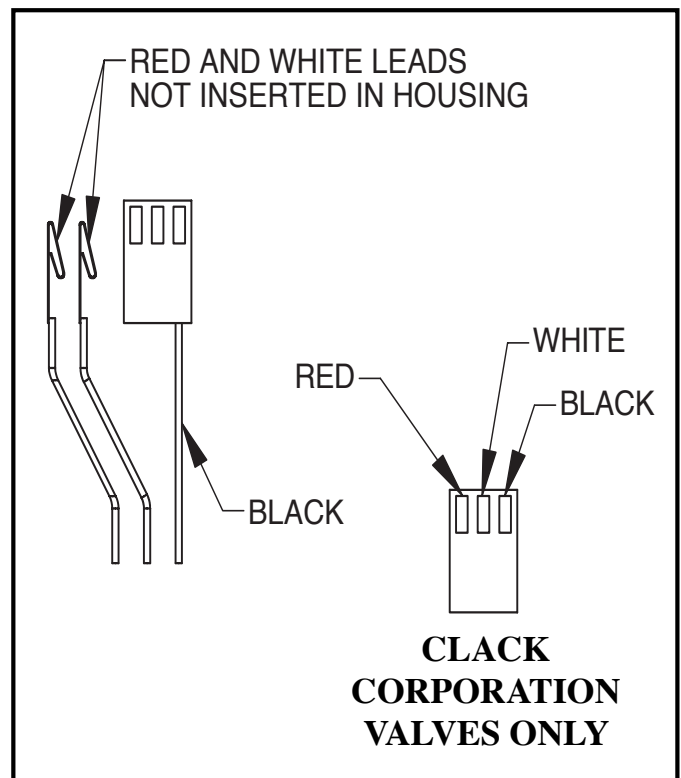
The housing connector diagram shows the proper installation of the RED, WHITE and BLACK wires for CLACK CORPORATION CONTROL VALVES. When connecting to other manufacturers control valves please contact your original equipment manufacturer for proper wiring instructions.

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:

- For WS2 valves select 2.0 if valve software records in gallons and 50 if valve software records in cubic meters.¹
- For WS2L valves select 2.0L if valve software records in gallons and 50L if valve software records in cubic meters.²
- The calibration factor for the WS2 Meter Assembly is 20 pulses per gallon when used on applications other than WS2 or WS2L valves and 5.3 pulses if valve software records in liters.
- The meter flow range is 1.5-150 gpm + 5% (output signal 0.4 Hz to 47.5 Hz). NOTE: Not all flow monitors will register accurately at either the low or high flow range of this meter. Contact your flow monitor manufacturer for limitations.
- Pressure drop at 150 gpm is 3.6 PSI



¹ When using the WS2 control valve, the circuit board software must have meter selection choices of 2.0 and 2.0L or 50 and 50L. The WS2 valve must be set for the 2.0 or 50 meter selection during programming. If the software version does not have both the 2.0 and 2.0L or 50 and 50L selections, consult your equipment supplier for a replacement circuit board.

² When using the WS2L valve with older version software that does not have both 2.0 and 2.0L or 50 and 50L selection choices, the valve must be set for 2.0 or 50 during programming. If a WS2L valve is being used with newer version software that has both 2.0 and 2.0L or 50 and 50L selection choices, the valve must be set for 2.0L or 50L during programming.