

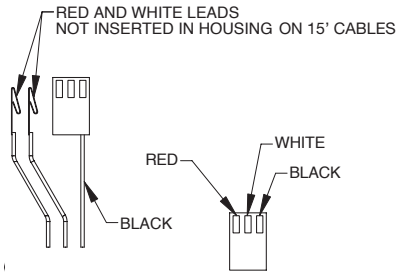
COMPOSITE METER INSTALLATION GUIDE

V3039 WS1 METER ASY 28 INCH
V3039-15 1 INCH METER 15FT ASY
V3045 WS15P METER ASY NPT 28 IN
V3045-15 WS15P METER ASY NPT 15 FT
V3045BSPT WS15P METER ASY BSPT 28 IN
V3045BSPT-15 WS15P METER ASY BSPT 15 FT
V3045QC WS15P METER ASYQC 28 IN

V3045QC-15 WS15P METER ASY QC 15 FT
V3048 WS2P METER ASY NPT 28 IN
V3048-15 WS2P METER ASY NPT 15 FT
V3048BSPT WS2P METER ASY BSPT 28 IN
V3048BSPT-15 WS2P METER ASY BSPT 15 FT
V3048QC WS2P METER ASY QC 28 IN
V3048QC-15 WS2P METER ASY QC 15 FT

WARNING: USE ONLY SILICONE-BASED LUBRICANTS ON ALL CLACK CORPORATION COMPONENTS

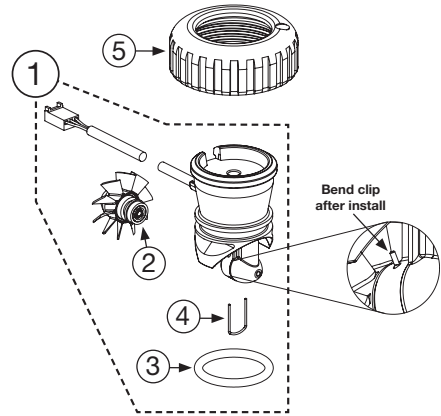
HYDROCARBONS WILL DAMAGE COMPONENTS THAT CONTAIN O-RINGS AND OR PLASTIC. THIS CAN CAUSE LEAKS OR BREAKAGE. DO NOT USE LUBRICANTS THAT CONTAIN HYDROCARBONS SUCH AS VASELINE® /PETROLEUM JELLY, WD-40®, ETC. DO NOT USE CLACK CONTROL VALVE PRODUCTS ON WATER SUPPLIES THAT CONTAIN HYDROCARBONS, SUCH AS BENZENE, GASOLINE, KEROSENE, ETC.

Measurement	Imperial	Metric
Meter Pulses		
1.0 Inline	66 Pulses/Gallon	12.4 Pulses/Liter
1.5 Inline	37 Pulses/Gallon	9.8 Pulses/Liter
2.0 Inline	20 Pulses/Gallon	5.3 Pulses/Liter
Meter Accuracy		
1.0 Inline	0.25 - 40 gpm $\pm$ 5%	0.95 - 151 lpm $\pm$ 5%
1.5 Inline	0.50 - 75 gpm $\pm$ 5%	2.00 - 284 lpm $\pm$ 5%
2.0 Inline	1.50 - 150 gpm $\pm$ 5%	5.70 - 568 lpm $\pm$ 5%
NOTE: Not all flow monitors will register accurately at the specified specs above. Contact your monitor manufacturer for limitations.		
Pressure Drop		
1.0 Inline	5.3 PSID @ 40 gpm	0.37 bar Δ P @ 151 lpm
1.5 Inline	2.7 PSID @ 75 gpm	0.19 bar Δ P @ 284 lpm
2.0 Inline	3.6 PSID @ 150 gpm	0.25 bar Δ P @ 568 lpm
Operating Pressure	20 - 125 PSI	1.4 - 8.6 bar
Operating Temperature	40° - 110°F	4° - 43°C
Meter Wiring Wire Gauge: 22 Red: Positive Black: Negative White: Signal (Meter Output) Voltage Requirement: 4 - 24 VDC Output Signal: 0.4 Hz - 47.5 Hz Terminals: Molex 41572 or 40445 Housing: Molex 22-01-3037 (Series 2695 White Housing) NOTE: When connecting to other manufacturer's control valves, contact your O.E.M. for proper wiring instructions.		
		
CAUTION: THIS WATER METER SHOULD NOT BE USED AS THE PRIMARY MONITORING DEVICE FOR CRITICAL OR HEALTH EFFECT APPLICATIONS. THE ARROW ON THE METER BODY SHOULD POINT THE SAME DIRECTION AS THE OUTLET WATER FLOW. THE METER CAN BE INSTALLED IN HORIZONTAL OR VERTICAL UPWARD WATER FLOW APPLICATIONS.		

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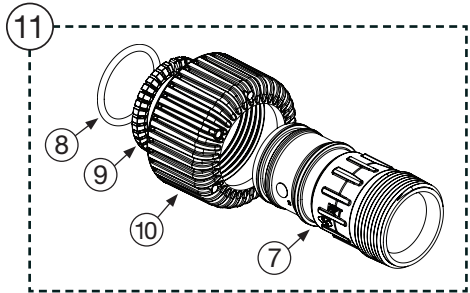
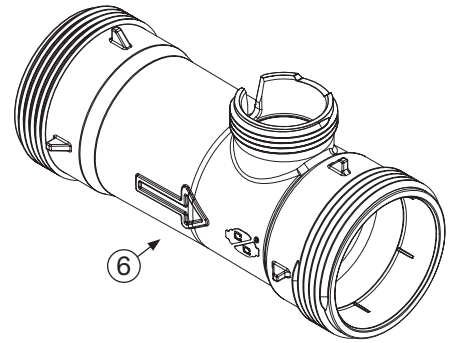
1.0" Meter • V3039 & V3039-15

Drawing No.	Order No.	Description	Qty.
1	V3003-02	WS1.5/2L/2H METER COMMERCIAL ASY	1
	V3221	WS REMOTE METER ASY 15 FT CORD	
2	V3008-03	WS15/2 TURBINE ASY	1
3	V3105	O-RING 215	1
4	V3501	WS15/2 TURBINE CLIP	1
5	V3151	WS1 NUT 1 QC	1
6	V3755	WS1 REMOTE METER HOUSING	1
Not Shown	V3756	WS1 FLOW STRAIGHTENER	1



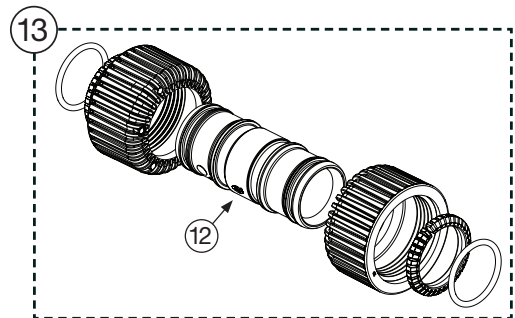
1.5" Meter • V3045, V3045-15, V3045BSPT, V3045BSPT-15, V3045QC, V3045QC-15

Drawing No.	Order No.	Description	Qty.
1	V3003-02	WS1.5/2L/2H METER COMMERCIAL ASY	1
	V3221	WS REMOTE METER ASY 15 FT CORD	
2	V3008-03	WS15/2 TURBINE ASY	1
3	V3105	O-RING 215	1
4	V3501	WS15/2 TURBINE CLIP	1
5	V3151	WS1 NUT 1 QC	1
6	V4356	WS1.5 METER HOUSING UNIVERSAL	1
7	V4353	WS1.5P 1.5" NPT X QC	1
	V4355	WS15P 1.5" BSPT X QC	
8	V4367	O-RING 222	2
9	V4345	WS15P SPILT RING	2
10	V4344	WS15P QC NUT	2
11	V4430-01	WS15P FTG ASY QC TO NPT	2
	V4430-02	WS15P FTG ASY QC TO BSPT	
12	V4354	WS15P 1.5" QC X QC	1
13	V4430-03	WS15P FTG ASY QC TO QC	1
Not Shown	V4357	WS1.5 FLOW STRAIGHTENER	1



2.0" METER • V3048, V3048-15, V3048BSPT, V3048BSPT-15, V3048QC, V3048QC-15

Drawing No.	Order No.	Description	Qty.
1	V3003-02	WS1.5/2L/2H METER COMMERCIAL ASY	1
	V3221	WS REMOTE METER ASY 15 FT CORD	
2	V3008-03	WS15/2 TURBINE ASY	1
3	V3105	O-RING 215	1
4	V3501	WS15/2 TURBINE CLIP	1
5	V3151	WS1 NUT 1 QC	1
6	V4414	WS2 METER HOUSING UNIVERSAL	1
7	V4415	WS2P 2" NPT X QC	1
	V4416	WS2P 2" BSPT X QC	
8	V3441	O-RING 226	2
9	V4418	WS2P SPILT RING	2
10	V4417	WS2P QC NUT	2
11	V4460-01	WS2P FTG ASY QC TO NPT	2
	V4460-02	WS2P FTG ASY QC TO BSPT	
12	V4439	WS2P 1.5" QC X QC	1
13	V4460-03	WS2P FTG ASY QC TO QC	1
Not Shown	V4419	WS2P FLOW STRAIGHTENER	1



This product is Tested and Certified by NSF International against NSF/ANSI/CAN Standard 61 for material requirements and NSF/ANSI/CAN 372.