



# City of Chelsea

## Department of Public Works

City Hall, 500 Broadway Room 310 · Chelsea, MA 02150

617.466.4200 · Fax 617.466.4210

## HYDRANT METER PROCEDURE, TERMS AND CONDITIONS:

### **Notice to Applicants**

The "Applicant", the company or individual to whom temporary hydrant use will be granted, is required to read these Terms and Conditions carefully to assure full compliance with the City of Chelsea Department of Public Works policies. Temporary access to a hydrant is conditioned on your acceptance of, and compliance with these Terms.

### **Disclaimer**

The City of Chelsea Department of Public Works and Chelsea Water & Sewer will in no way be held liable for any loss or damage to the public water system, hydrant, or equipment provided for metering and backflow prevention. After initial inspection and testing of the water meter and reduced pressure backflow preventer setup, the Applicant shall be solely responsible for any and all theft, loss or damage to this equipment.

### **Application Process**

The Hydrant Meter Application can be obtained through the Department of Public Works or on the City of Chelsea website. Public Works is the only entity in the City that can issue the right for hydrant meters to be connected to Chelsea's public water system. The application requires a non-refundable fee of \$1,000.00 payable upon submission of the application.

In addition, the Applicant must purchase a City of Chelsea approved hydrant meter set-up at the sole cost of the Applicant. The specifications for the approved hydrant meter set-up will be provided with the application. The Applicant can purchase this set-up from any vendor. The Applicant must provide a billing address where the City of Chelsea will send monthly water usage invoices. The City of Chelsea will invoice for the usage according to our water rates published annually on our website. Failure to pay water usage fees within 60 days of assessment shall result in revocation of this Temporary Hydrant Use Permit.

### **Initial Installation & Testing**

Upon receipt of an executed Temporary Hydrant Use permit and required hydrant meter equipment, the Applicant shall contact the Department of Public Works to schedule onsite training and initial inspection/testing of the backflow preventer. At this time, the Applicant shall receive instruction on the proper installation of the water meter and backflow prevention setup, as well as proper and safe operation of the



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hydrant. The Applicant shall acknowledge in writing his understanding of the instructions provided. Upon request, the Applicant shall make the water meter available for inspection and documentation of the meter reading by City of Chelsea staff.

### **Regular Hydrant Use**

After initial installation and testing, the Applicant shall be solely responsible for the proper operation of the hydrant and maintenance of associated equipment, including protecting the equipment from damage, unauthorized use, vandalism, and theft. The Applicant may remove and reinstall the meter and backflow prevention equipment if needed for this purpose.

At no time shall the Applicant operate or connect to a hydrant without the water meter and backflow prevention equipment properly installed. The Applicant is advised that failure to use, or improper use of the backflow preventer could result in contamination of the public water supply and associated potential risks to public health. The Applicant shall assume all liability associated with failure to use, or misuse, of the hydrant or backflow preventer.

### **Backflow Preventer Testing**

Upon request, the Applicant shall allow inspection and testing of the backflow prevention equipment by the Department of Public Works. At minimum, bi-annual testing of the backflow preventer is required.

### **Relocation**

This permit for Hydrant Meters includes permission to connect to an assigned hydrant. The Applicant shall not operate or connect to any other hydrant without prior written authorization from the Department of Public Works. If relocation is approved, inspection and testing of the water meter and backflow prevention setup at the new location is required prior to hydrant use.

### **Termination of Temporary Hydrant Use**

Upon the completion of use, the Applicant shall notify the Department of Public Works. City staff will take a final reading from the hydrant meter, issue a final invoice to the Applicant for water used, and closeout the account.



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Application non-  
Refundable Fee  
**\$ 1,000.00**

## Hydrant Meter Application

Print Name: \_\_\_\_\_ Company Name: \_\_\_\_\_

**Bill to:** \_\_\_\_\_

**Bill to address:** \_\_\_\_\_

Meter Location: \_\_\_\_\_

Worksite Phone number: \_\_\_\_\_ 24hr phone #: \_\_\_\_\_

Customer Signature  \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_ 2019

Meter # \_\_\_\_\_ Meter Size: \_\_\_\_\_ RPBP serial number \_\_\_\_\_

Notes:

### DPW Personnel Only

DPW Authorization Signature: \_\_\_\_\_

Check # \_\_\_\_\_



75 Highland Dr.  
Putnam, CT 06260

T: 800-420-4673  
F: 800-772-0255

kochek.com

## 09K-Gate Valve

Hand Wheel



09K25225M



Gate Valve 2.5 NH SW RL F x 2.5 NH M

Crank Handle



09KT25225M

300 PSI M.O.P. (Maximum Operating Pressure).

Offering **TWO** styles of handles: Traditional Hand Wheel and Crank Handle

Excellent shut off valve used on 2 ½" Hydrant outlets to control water hammer and reduce hydrant main damage.

Ideal for use in hose testing and on hydrants, stand pipes and pumps.

Non rising stem with crank handle.

Less than nine turns to open and close.

Lightweight durable aluminum body construction powder coated for corrosion resistance.

Metal to metal seat.

**Weight:** 4.2 lbs.

**Length:** 13" x 5.25" x 5.25"

## For Health Hazard Applications

Job Name \_\_\_\_\_  
 Job Location \_\_\_\_\_  
 Engineer \_\_\_\_\_  
 Approval \_\_\_\_\_

Contractor \_\_\_\_\_  
 Approval \_\_\_\_\_  
 Contractor's P.O. No. \_\_\_\_\_  
 Representative \_\_\_\_\_

# LEAD FREE\*

## Series LF009 Reduced Pressure Zone Assemblies

Sizes: 1/4" - 3" (8 - 80mm)

Series LF009 Reduced Pressure Zone Assemblies are designed to protect potable water supplies in accordance with national plumbing codes and water authority requirements. This series can be used in a variety of installations, including the prevention of health hazard cross-connections in piping systems or for containment at the service line entrance. The LF009 features Lead Free\* construction to comply with Lead Free\* installation requirements.

This series features two in-line, independent check valves, captured springs and replaceable check seats with an intermediate relief valve. Its compact modular design facilitates easy maintenance and assembly access. Sizes 1/4" - 1" (8 - 25mm) shutoffs have tee handles.

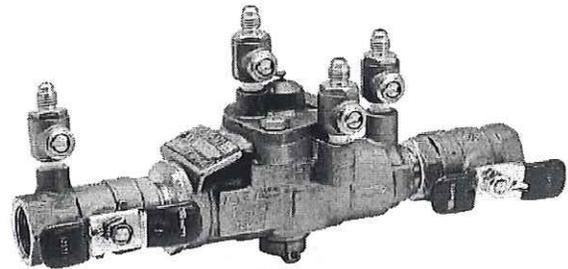
### Features

- Single access cover and modular check construction for ease of maintenance
- Top entry - all internals immediately accessible
- Captured springs for safe maintenance
- Internal relief valve for reduced installation clearances
- Replaceable seats for economical repair
- Lead Free\* cast copper silicon alloy body construction for durability 1/4" - 2" (8 - 50mm)
- Fused epoxy coated cast iron body 2 1/2" and 3" (65 and 80mm)
- Ball valve test cocks - screwdriver slotted 1/4" - 2" (8 - 50mm)
- Large body passages provides low pressure drop
- Compact, space saving design
- No special tools required for servicing

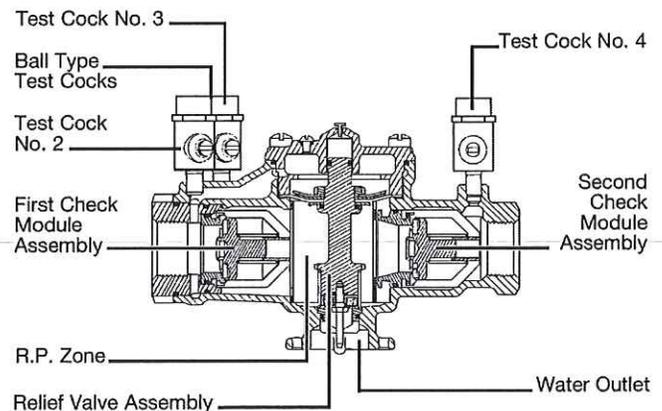
### Specifications

A Reduced Pressure Zone Assembly shall be installed at each potential health hazard location to prevent backflow due to backsiphonage and/or backpressure. The assembly shall consist of an internal pressure differential relief valve located in a zone between two positive seating check modules with captured springs and silicone seat discs. Seats and seat discs shall be replaceable in both check modules and the relief valve. There shall be no threads or screws in the waterway exposed to line fluids. Service of all internal components shall be through a single access cover secured with stainless steel bolts. Body and shutoffs shall be constructed using Lead Free\* cast copper silicon alloy materials. Lead Free\* reduced pressure zone assembly shall comply with state codes and standards, where applicable, requiring reduced lead content.

The assembly shall also include two resilient seated isolation valves, four resilient seated test cocks and an air gap drain fitting. The assembly shall meet the requirements of: USC; ASSE Std. 1013; AWWA Std. C511; CSA B64.4. Shall be a Watts Series LF009.



LF009



**Now Available**  
**WattsBox Insulated Enclosures.**  
 For more information, send for literature ES-WB.

### NOTICE

Inquire with governing authorities for local installation requirements

\*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

**WATTS®**

## Available Models: 1/4" – 2" (8 – 50mm)

### Suffix:

- QT – quarter-turn ball valves
- S – strainer
- LF – without shutoff valves
- PC – internal polymer coating

### Prefix:

- U – union connections

## Available Models: 2 1/2" – 3" (65 – 80mm)

### Suffix:

- NRS – non-rising stem resilient seated gate valves
- OSY – UL/FM outside stem and yoke resilient seated gate valves
- S-FDA – FDA epoxy coated strainer
- QT-FDA – FDA epoxy coated quarter-turn ball valves
- LF – without shutoff valves

**Note:** The installation of a drain line is recommended. When installing a drain line, an air gap is necessary (see ES-AG).

## Materials: 1/4" – 2" (8 – 50mm)

Lead Free\* cast copper silicon alloy body construction, silicone rubber disc material in the first and second check plus the relief valve. Replaceable polymer check seats for first and second checks. Removable stainless steel relief valve seat. Stainless steel cover bolts.

Standardly furnished with NPT body connections. Model LF009QT furnished with quarter-turn, full port, resilient seated, Lead Free\* cast copper silicon alloy body ball valve shutoffs.

## Materials: 2 1/2" and 3" (65 – 80mm)

- (FDA approved) Epoxy coated cast iron unibody with plastic seats
- Relief valve with stainless steel seat and trim
- Lead Free cast copper silicon alloy body ball valve test cocks

## Pressure / Temperature

**Sizes 1/4" – 2" (8 – 50mm)** Suitable for supply pressure up to 175psi (12 bar). Water temperature: 33°F – 180°F (0.5° – 75°C).

**Sizes 2 1/2" and 3" (65 and 80mm)** are suitable for supply pressures up to 175psi (12.1 bar) and water temperature at 110°F (43°C) continuous, 140°F (60°C) intermittent.

## Standards

- USC
- ASSE No. 1013
- AWWA C511
- CSA B64.4
- IAPMO File No. 1563.



## Approvals

ASSE, AWWA, CSA, IAPMO

Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California.

Approval models QT, PC, NRS, OSY.

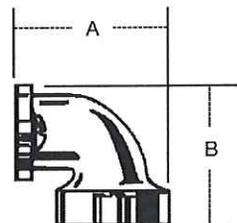
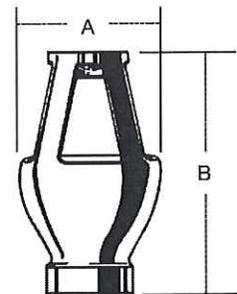
UL Classified

2 1/2" and 3" (65 and 80mm) with OSY gate valves.

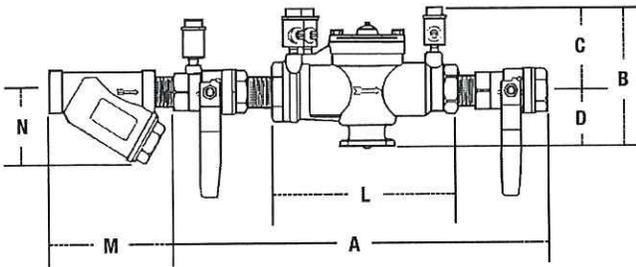
3/4" - 2" (20-50mm) without shutoff valves (-LF) (except LF009M3LF)

## Air Gaps and Elbows

MODEL	DRAIN OUTLET	DIMENSIONS				WEIGHT			
		in.	mm	A		B			
909AGA	for 909, 009 and 993 sizes 1/4"-1/2" 009, 3/4" 009M2/M3	1/2	13	2 3/8	60	3 1/4	79	0.625	0.28
909AGC	3/4"-1" 009/909, 1"-1 1/2" 009M2	1	25	3 1/4	83	4 1/8	124	1.5	0.68
909AGF	1 1/4"-2" 009M1, 1 1/4"-3" 009/909, 2" 009M2, 4"-6" 993	2	51	4 3/8	111	6 3/8	171	3.25	1.47
909AGK	4"-6" 909, 8"-10" 909M1	3	76	6 3/8	162	9 3/8	244	6.25	2.83
909AGM	8"-10" 909	4	102	7 3/8	187	11 1/4	286	15.5	7.03
909ELA	1/4"-1/2" 009, 3/4" 009M2/M3	-	-	-	-	-	-	-	-
909ELC	3/4"-1" 009/909	-	-	2 3/8	60	2 3/8	60	0.38	0.17
* 909ELF	1 1/4"-2" 009M1, 1 1/4"-2" 009/909, 2" 009M2, 4"-6" 993	-	-	3 3/8	92	3 3/8	92	2	0.91
* 909ELH Vertical	2 1/2"-3" 009/909	-	-	-	-	-	-	-	-



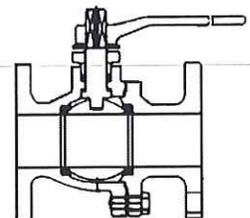
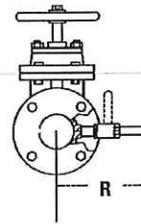
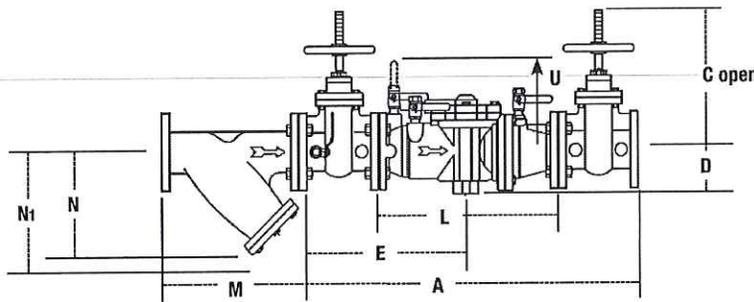
Dimensions and Weight: 1/4" - 2" (8 - 50mm) LF009



LF009 1/4" - 2"

SIZE (DN)		DIMENSIONS (APPROX.)										WEIGHT					
in.	mm	A		B		C		D		L		M		N		lbs.	kgs.
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
1/4	8	10	250	4 5/8	117	3 3/8	86	1 1/4	32	5 1/2	140	2 3/8	60	2 1/2	64	5	2
3/8	10	10	250	4 5/8	117	3 3/8	86	1 1/4	32	5 1/2	140	2 3/8	60	2 1/2	64	5	2
1/2	15	10	250	4 5/8	117	3 3/8	86	1 1/4	32	5 1/2	140	2 3/8	70	2 1/4	57	5	2
3/4	20	10 3/4	273	5	127	3 1/2	89	1 1/2	38	6 3/4	171	3 9/16	81	2 3/4	70	6	3
1	25	16 3/4	425	5 1/2	140	3	76	2 1/2	64	9 1/2	241	3 3/4	95	3	76	12	5
1 1/4	32	17 3/8	441	6	150	3 1/2	89	2 1/2	64	11 3/8	289	4 7/16	113	3 1/2	89	15	6
1 1/2	40	17 3/4	454	6	150	3 1/2	89	2 1/2	64	11 1/4	283	4 1/2	124	4	102	16	7
2	50	21 3/8	543	7 3/4	197	4 1/2	114	3 1/4	83	13 1/2	343	5 5/16	151	5	127	30	13

Dimensions and Weight: 2 1/2" and 3" (65 and 80mm) LF009



Watts G-4000 Series  
QT - Ball Valves

STRAINER SIZE		DIMENSIONS (APPROX.)			WEIGHT				
in.	mm	M	N	N1†	lbs.	kgs.			
		in.	mm	in.	mm				
2 1/2	65	10	254	6 1/2	165	9 3/4	248	28	12.7
3	80	10 1/8	257	7	178	10	254	34	15.4

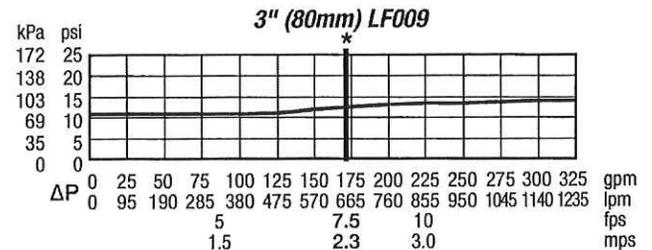
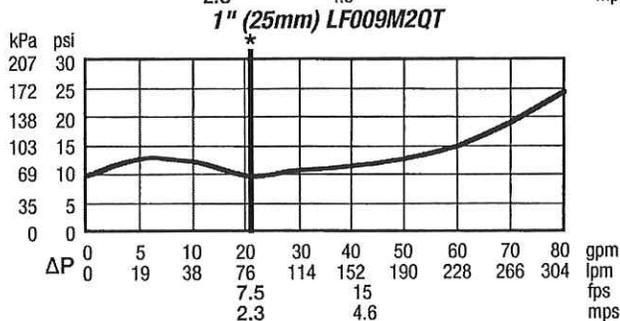
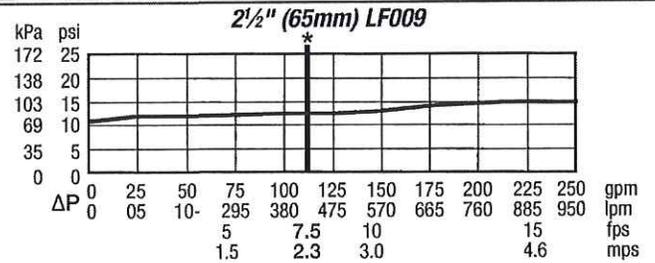
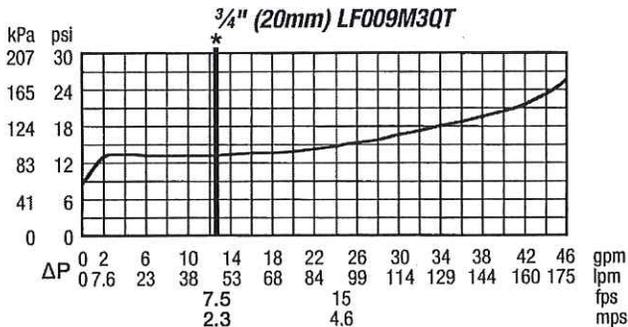
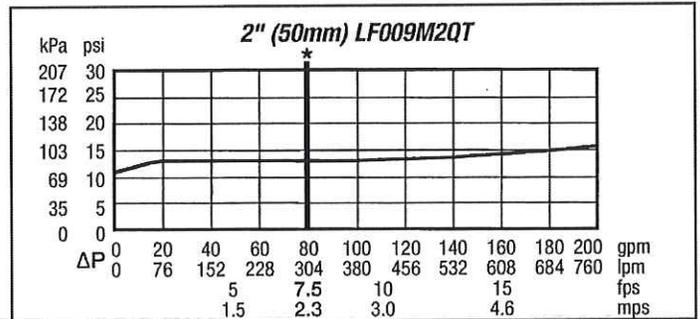
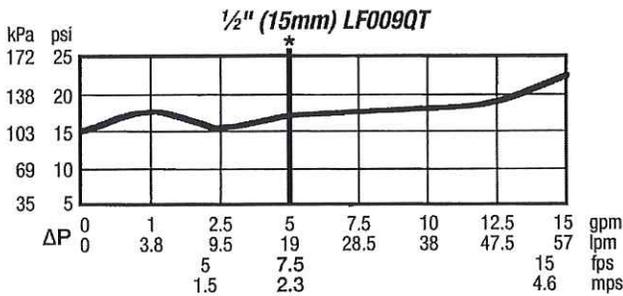
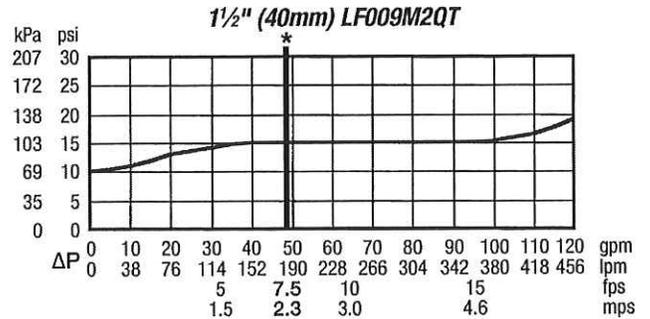
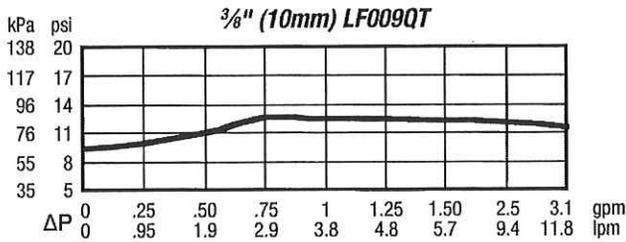
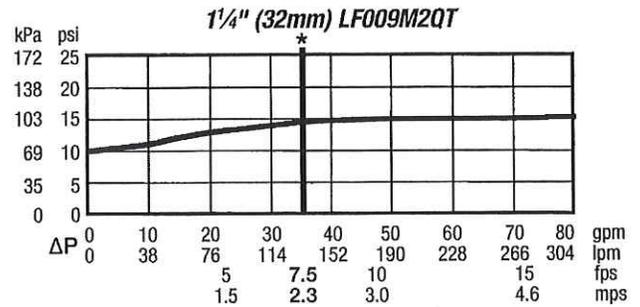
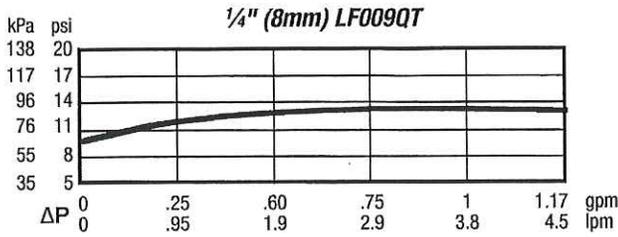
†Clearance for servicing

MODEL	SIZE DN		DIMENSIONS (APPROX.)								WEIGHT									
	in.	mm	A		C		D		E		L		R		U		lbs.	kgs.		
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
LF009LF	2 1/2	65	—	—	—	—	4 1/2	114	—	—	18 1/8	460	—	—	10 3/8	270	76	34.5		
LF009OSY	2 1/2	65	33 1/4	845	15 7/8	403	4 1/2	114	16 3/8	416	18 1/8	460	7 3/4	197	10 3/8	270	166	75.3		
LF009NRS	2 1/2	65	33 1/4	845	11 3/8	289	4 1/2	114	16 3/8	416	18 1/8	460	7 3/4	197	10 3/8	270	161	73.0		
LF009QTFDA	2 1/2	65	33 1/4	845	6	152	4 1/2	114	16 3/8	416	18 1/8	460	7 3/4	197	10 3/8	270	150	68.0		
LF009LF	3	80	—	—	—	—	4 1/2	114	—	—	18 1/8	460	—	—	10 3/8	270	76	34.5		
LF009OSY	3	80	34 1/4	870	18 1/2	470	4 1/2	114	16 3/8	422	18 1/8	460	8 3/4	222	10 3/8	270	198	89.8		
LF009NRS	3	80	34 1/4	870	12 3/4	324	4 1/2	114	16 3/8	422	18 1/8	460	8 3/4	222	10 3/8	270	191	86.6		
LF009QTFDA	3	80	34 1/4	870	7	178	4 1/2	114	16 3/8	422	18 1/8	460	8 3/4	222	10 3/8	270	158	71.7		

# Capacity

Performance as established by an independent testing laboratory.

\*Typical maximum system flow rate (7.5 feet/sec., 2.3 meters/sec.)



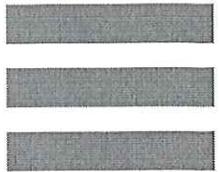
A Watts Water Technologies Company

USA: Tel: (978) 688-1811 • Fax: (978) 794-1848 • www.watts.com  
 Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • www.watts.ca

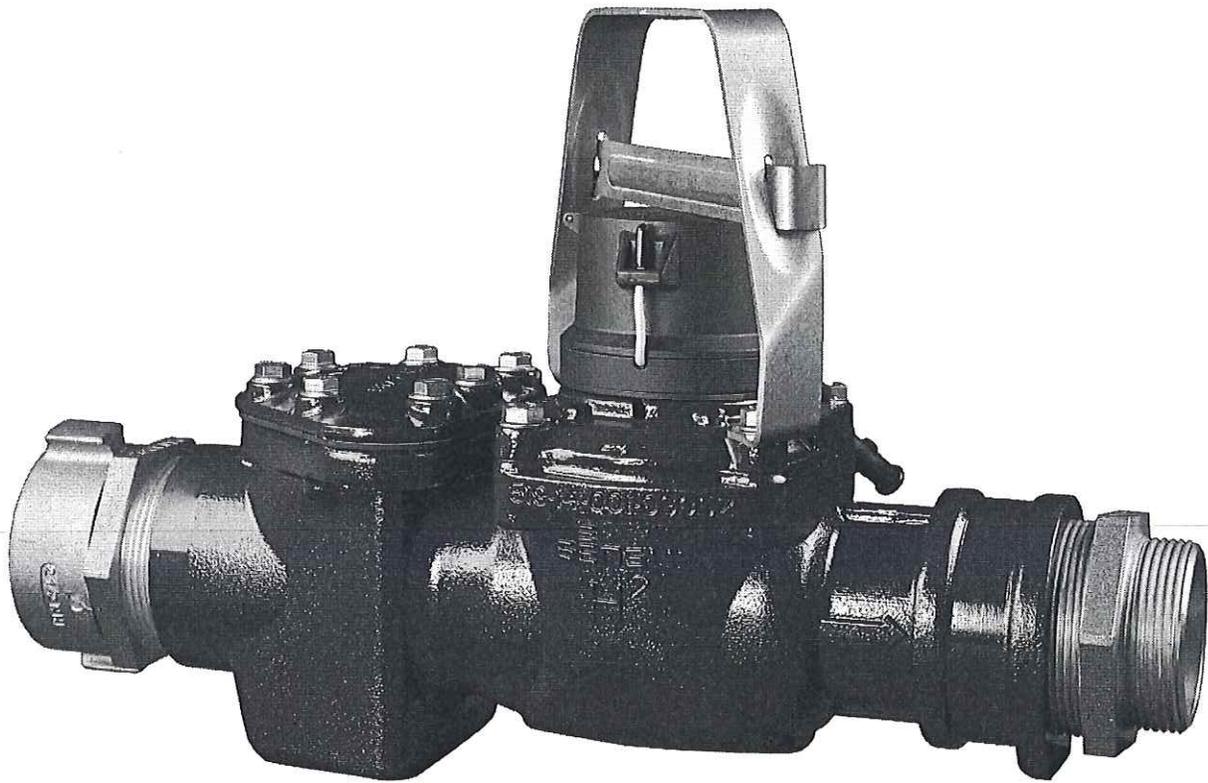
MP-W-OMN-H2-10-0413-01-A

# OMNI™ H<sup>2</sup> Fire Hydrant Meter

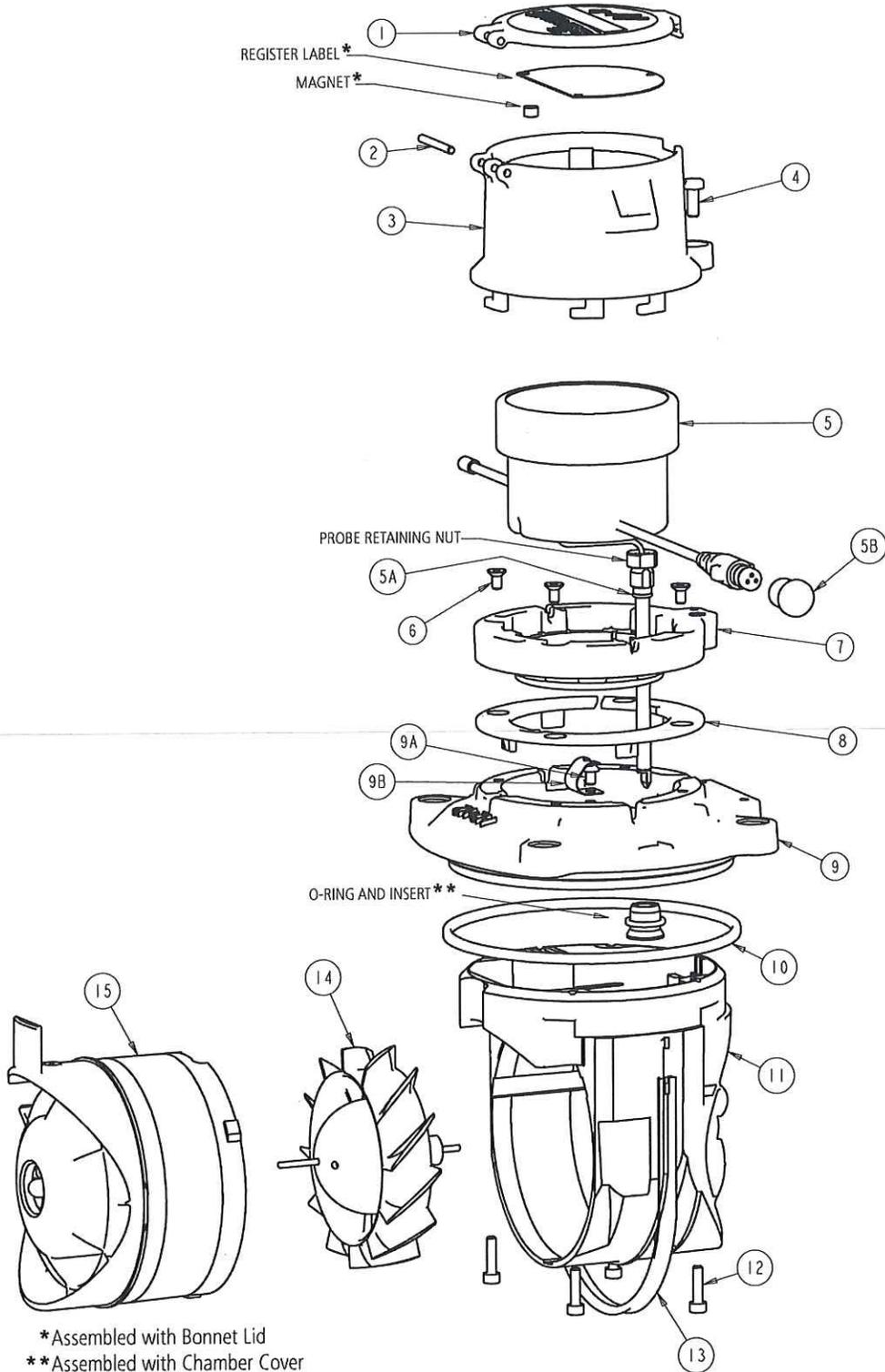
Parts List



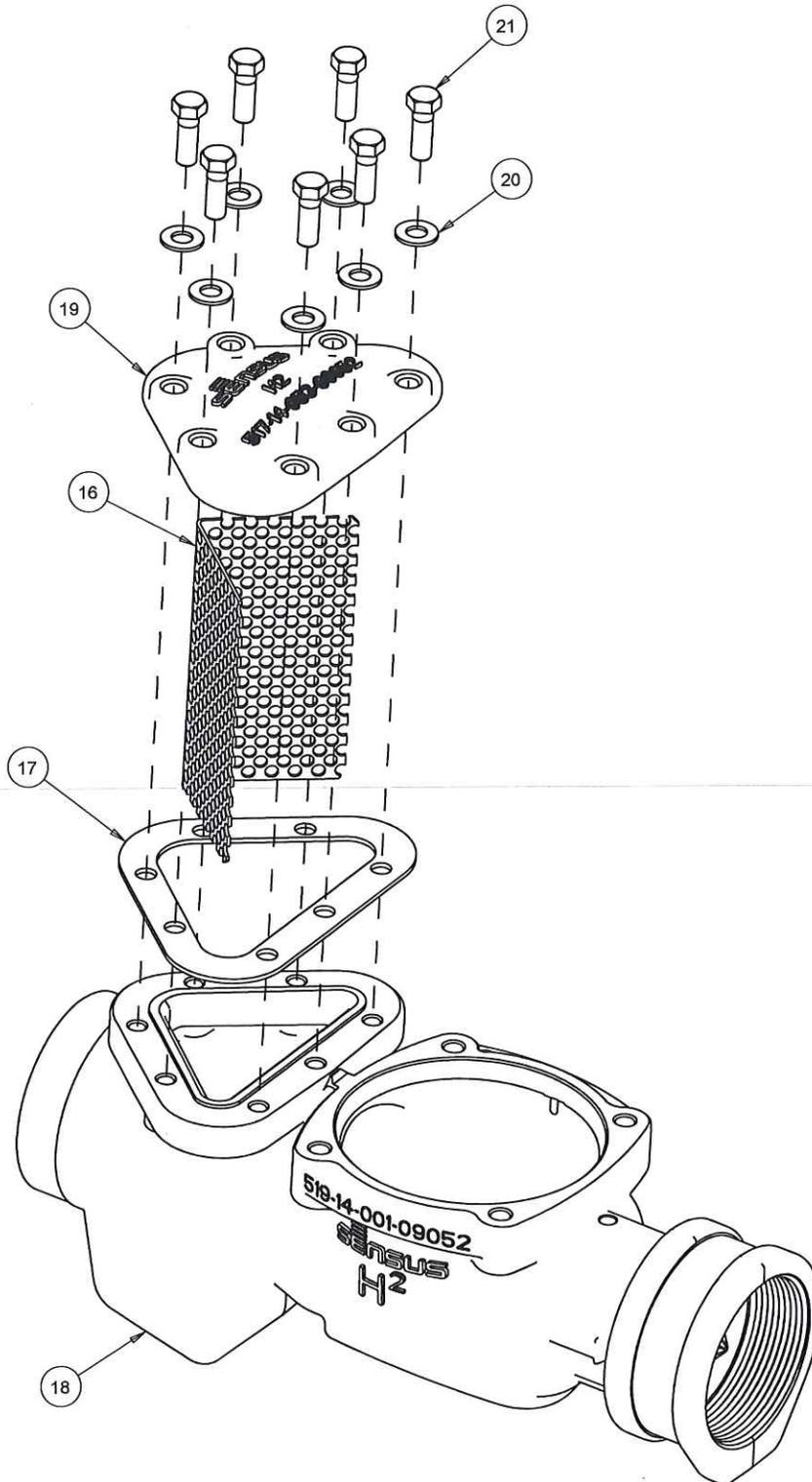
## OMNI H<sup>2</sup> Fire Hydrant Meter



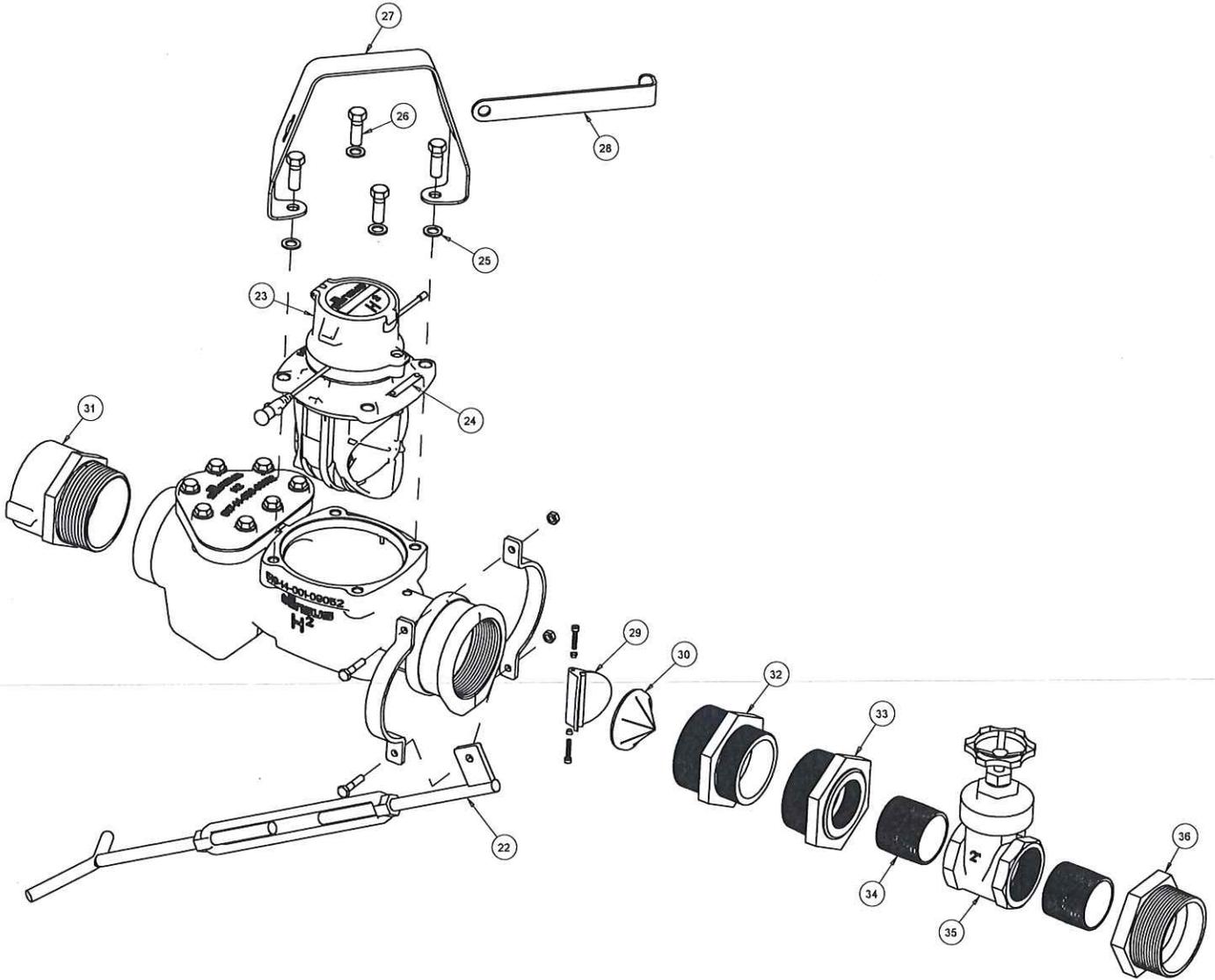
### OMNI H<sup>2</sup>: Fire Hydrant Meter



### OMNI H<sup>2</sup>: Fire Hydrant Meter



### OMNI H<sup>2</sup>: Fire Hydrant Meter



## OMNI H<sup>2</sup>: Fire Hydrant Meter

ILL. No.	Name of Part
1	H <sup>2</sup> Bonnet Lid
2	Hinge Pin
3	Bonnet
4	Bonnet Seal Screw
5	Register w/AMR and Pulse Wire
5A	Pick-Up Probe O-Ring
5B	End Cap for Nicor Connector
6	Locking Ring Screw (4)
7	Locking Ring
8	Fixing Ring
9	Chamber Cover
9A	Screw, Spring Hold Down
9b	Spring
10	Chamber Cover O-Ring or Gasket
11	Measuring Insert w/Brg and Thrust Assy.
12	Measuring Insert Screw (4)
13	Chamber Seal Gasket
14	H <sup>2</sup> Rotor and Shaft Assy.
15	OMNI H <sup>2</sup> Balance Plate w/Brg and Thrust Assy.
16	Strainer Screen
17	Strainer Cover Gasket
18	Meter Body
18A	Meter Body for Techno-Check Valve (not shown)
19	Strainer Cover
20	SS Washer, 3/8" Bolt (7)
21	3/8"-16 X 1.125 HH Bolt (7)

ILL. No.	Name of Part
22	Meter Support (Option)
23	Measuring Chamber Assy.
24	S/N Badge
25	SS Washer, 7/16" Bolt (4)
26	7/16"-14 X 1.25 HH Bolt (4)
27	Handle
28	Handle Lock Bar
29	Techno-Check Valve (Option)
30	Variable Orifice
31	Coupling Swivel 3" NPT Male x Fire Hose Thread Male <sup>1</sup>
32	Hex Reducer 3" NPT Male x 2.5" NSFH Male <sup>1,2</sup>
33	Hex Reducer 3" NPT Male x 2" NPT Female <sup>3</sup> (Option)
34	2" NPT Close Nipple (2) <sup>3</sup> (Option)
35	2" Gate Valve <sup>3</sup> (Option)
36	Hex Reducer 2.5" NSFH Male x 2" NPT Female <sup>3</sup> (Option)

**Notes:**

1. Fire hose threads are 2-1/2" - 7-1/2" NS threads unless otherwise specified.
2. See Thread chart on Configurator for your required thread.
3. Parts of Gate Valve Assembly.

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T O	CITY OF CHELSEA DPW 500 BROADWAY ROOM 310 ATTN: ANDY DESANTIS CHELSEA, MA 02150	F R O M	TEAM EJP Middleton, MA 162 No. Main Street Rte 114 P O Box 761 Middleton, MA 01949 Telephone: 978-777-7738
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Q U O T A T I O N

5/07/19

Bid ID: 5397345 CHELEA, MA - HYDRANT METER SETUP

Page 1

Quantity	Sell Per	Description	Unit Price	Extended Price
		<p>* ALL TAKE-OFF QUANTITIES ARE * * APPROXIMATE *   ** DUE TO MARKET CONDITIONS **  ** ACTUAL PRICING TO BE **  ** DETERMINED AT TIME OF **  ** SHIPMENT ONLY **   ** CONTRACTOR RESPONSIBLE FOR **  ** MATERIAL AND QUANTITY. **   * TEAM EJP DOES NOT ACCEPT *  * RESPONSIBILITY FOR PRODUCT *  * COMPLIANCE WITH THE "BUY *  * AMERICA, ARRA, OR AMERICAN *  * IRON AND STEEL ACTS" *</p>		
1	EA	OMNI H2 MTR W/STRAINER NST	1,695.00	1,695.00
1	EA	2 LF009M2 QT RPZ	750.00	750.00
1	EA	2 1/2 GATE VLV NHFXNHM	250.00	250.00
1	EA	2 1/2X2 FNSTXMNPT ADAPTER	37.50	37.50
1	EA	2 1/2X2 MNST X MIP ADAPTER	45.00	45.00
		THANK YOU,		
		DAVID DOUCET TEAM E.J. PRESCOTT, INC. MIDDLETON, MA 01949 PHONE: 978 777 7738 FAX : 978 774 3853		
		Subtotal:		2,777.50
		Tax:		.00
<b>Bid Total:</b>				<b>2,777.50</b>