### SHOP DRAWING REVIEW

	NOT REVIEWED REVIEWED
	REVIEWED AS NOTED
٦	REVISE AND RESUBMIT

This review by Hilditch Architect Inc. is for the sole purpose of ascertaining conformance with the general design concept features only, and does not in any way constitute review of the design of engineering elements which form part of the Contract Documents prepared by others. This review shall not mean that Hilditch Architect Inc. approves the design detail inherent in the shop drawings, responsibility for which shall remain with the Contractor submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawings or of his responsibility for meeting all requirements of the Contract Documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to fabrication processes or to techniques of construction and installation and for co-ordination of the work of all trades.

### Hilditch Architect Inc.

By: Sasha Stairs Project No: 1809

Date Rec'd: Date Rev'd: 2025.05.12

GC/CM: 2025.05.09 Consultant: 2025.05.12

### **Submittal No.71**

### **Backflow Preventers - Shop**

### **Drawing**

# **Project Name:** Neshama Hospice

Owner: Neshama

# Prime Consultant: Hilditch Architect Inc

**General Contractor: Renokrew** 

SHOP DRAWING ———— SUBMITTAL REVIEW	JOB NAME JOB # DATE	Neshama Hospice 24-130 May 09, 2025
REVIEWED	specifications only. Apsubcontractors perfor	eral conformance of plans and oprovals are subject to rmance within the confines of the Review of dimensions will not
REJECTED  REVIEW &  RESUBMIT		bcontractor of contractual deviation from the contract
REVIEW AS NOTED	23 08 10  SHOP DRAWING PRODUCT DATA DOCUMENTATI LETTER	A REVIEWED BY:

# SustainGlobe Ltd. THIS DRAWING REVIEWED SOLELY FOR GENERAL CONFORMITY WITH DESIGN CONCEPTS. QUANTITIES, DETAILS, DIMENSIONS. AND TESSONS. MIHERENT SEPONSIBILITY TO VERHEY DATA WITH FIELD DIMENSIONS. CONTRACTOR IS SOLELY RESPONSIBLE FOR DESIGN OF MANUFACTURED ITEMS, FARRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION AND INSTALLATION OF EQUIPMENT. DATE RECEIVED: WE CHANICAL BLECTRICAL OTHERS THIS DRAWING IS: REVIEWED AS NOTED REVIEWED AND TO BE RESUBMIT PROJ. NO.: 18031





### **Submittal 24-256-020**

PROJECT NAME PROJECT ADDRESS DATE SUBMITTED

NESHAMA HOSPICE 24-256 3 Cadillac Avenue North York, ON M3H 1R9 May 9, 2025

TO FROM

Taranjeet Singh INZAMAN KHAN

COMPANY COMPANY

1568796 ONTARIO INC. C/A RENOKREW Consult Mechanical Inc.

EMAIL EMAIL

taranjeet@renokrew.com inzaman@consultmechanical.com

ADDRESS ADDRESS

43 LEPAGE COURT TORONTO, ON M3J 1Z9 54 Audia Court, Unit 2 Concord, ON L4K 3N5

### Title

Backflow Preventer - 1, 2 & 3

### **Description**

Backflow preventer BFP-1, BFP-2 and BFP-3

a. 4 957-BFG-FS

b. 3/4 LF009M3-QT-FS

c. 909AGA

### **Package Items**

SPEC SUBSECTION ITEM TYPE

Job Name	Contractor
Job Location	Approval
Engineer	Contractor's P.O. No.
Approval	Representative
19910vai	Tioproscritative

## LEAD FREE\*

### **Series 957-FS**

### Reduced Pressure Zone Assemblies

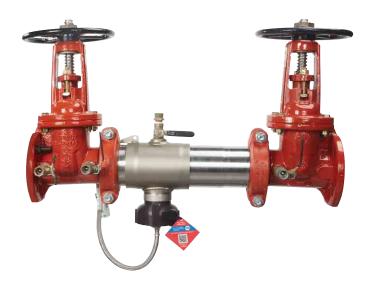
21/2" - 10"

Series 957-FS Reduced Pressure Zone Assemblies provide protection to the potable water system from contamination in accordance with national plumbing codes. The assemblies are normally used in health hazard applications for protection against backsiphonage or backpressure.

The series include an integrated flood sensor to detect excessive water discharges from the relief valve. When activated through an add-on sensor connection kit, the flood sensor relays a signal that triggers a multichannel alert (call, email, text) to notify personnel about potential flooding. The add-on sensor connection kit is available for both building management systems, or BMS, and cellular communication. (For more information, refer to *Installation, Maintenance, and Repair Manual, Series 957-FS*, 957RPDA-FS, and LF957RPDA-FS.)

### **Features**

- Sizes 2½", 3", and 4" available with quarter-turn ball valve shutoffs
- Replaceable check disc rubber
- Extremely compact design
- 70% Lighter than traditional designs
- 304 (Schedule 40) stainless steel housing and sleeve
- Groove fittings allow integral pipeline adjustment
- Patented torsion spring checks provide lowest pressure loss
- Unmatched ease of serviceability
- Bottom mounted cast stainless steel relief valve
- Available with grooved butterfly valve shutoffs
- Integrated sensor for flood detection, activated by add-on sensor connection kit



957-FS-OSY

### NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Inquire with governing authorities for local installation requirements.

### NOTICE

Use of the integrated flood sensor does not replicate the need to comply with all required instructions, codes, and regulations related to installation, operation, and maintenance of this product, including the need to provide proper drainage in the event of a discharge.

Watts® is not responsible for the failure of alerts due to connectivity or power issues.



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

### Specification

The Reduced Pressure Zone Assembly shall consist of two independent torsion spring check modules, a differential pressure relief valve located between and below the two modules, two drip tight shutoff valves, and required torsion spring check modules and relief valve shall be contained with a sleeve accessible single housing constructed from 304 (Schedule 40) stainless steel pipe with groove end connections. Torsion spring checks shall have replaceable elastomer discs and in operation produce drip tight closure against the reverse flow of liquid caused by backpressure or backsiphonage. Assembly shall be a Watts Series 957.

### **Model Suffix**

FS Integrated sensor for flood detection

**NRS** Non-rising stem, resilient seated gate valves OSY UL Classified and FM Approved outside stem and

yoke resilient seated gate valves

Ν N-pattern orientation Ζ Z-pattern orientation

**BFG** UL Classified and FM Approved grooved gear

operated butterfly valves with tamper switch

QT 21/2" - 4" quarter-turn ball valves

OSY FxG\*\* Flanged inlet gate connection and grooved outlet

gate connection

OSY GxF\*\* Grooved inlet gate connection and flanged outlet

gate connection

OSY GxG\*\* Grooved inlet gate connection and grooved

outlet gate connection

### NOTICE

When installing a drain line on Series 957 backflow preventers, use 957AG air gaps. Attach the air gap brackets directly onto the flood sensor. For additional information, refer to ES-AG/EL/TC at watts.com

### **Approvals**

- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at The University of Southern California (FCCCHR-USC), excluding 10" N-pattern installation as well as 6" and 10" Z-pattern installations
- AWWA C511-97











For additional approval information, contact the factory or visit watts.com.

<sup>\*\*</sup>Options for the gate valve:

Consult factory for dimensions.

<sup>-</sup> Available with grooved NRS gate valves; consult factory.

<sup>-</sup> Post indicator plate and operating nut available; consult factory.

### Materials

Housing & Sleeve 304 (Schedule 40) stainless steel

Elastomers EPDM, silicone, and Buna-N

Torsion Spring Checks Noryl®, stainless steel

Check Discs Reversible silicone or EPDM
Test Cocks Lead Free\* bronze body
Pins & Fasteners 300 Series stainless steel

Springs Stainless steel

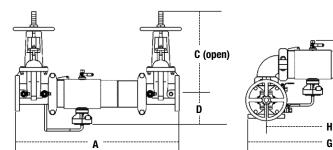
### Pressure - Temperature

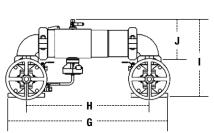
Temperature Range 33°F–140°F

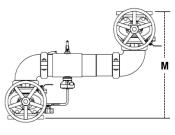
 $(0.5^{\circ}C - 60^{\circ}C)$ 

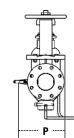
Maximum Working Pressure 175 psi (12.1 bar)

### **Dimensions - Weight**



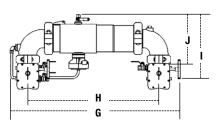


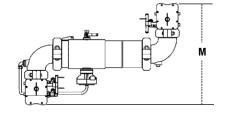


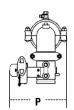


957, 957N, 957Z

	SIZE												DIMEN	1210112											WEI	Sill			
		A	4	C (C	SY)	C (N	RS)	D		(	ì	I	1	- 1		J		ı	M	Р		9571	NRS	957	0SY	957N	NRS	957N	OSY
	in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb	kg	lb	kg	lb	kg	lb	kg
	21/2	30¾	781	16%	416	93/8	238	61/2	165	291/16	738	21½	546	15½	393	813/16	223	211/4	540	93/16	234	118	54	128	58	126	57	136	62
_	3	31¾	806	187/8	479	101/4	260	611/16	170	301/4	768	221/4	565	171/8	435	9 <sup>3</sup> / <sub>16</sub>	233	23	584	101/2	267	134	61	148	67	147	67	161	73
SG:	4	33¾	857	223/4	578	<b>12</b> <sup>3</sup> ⁄ <sub>16</sub>	310	7	178	33	838	23½	597	18½	470	915/16	252	261/4	667	<b>11</b> <sup>3</sup> ⁄ <sub>16</sub>	284	164	74	164	74	187	85	187	85
_	6	43½	1105	301//8	765	16	406	81/2	216	443/4	1137	33½	851	233/16	589	131/16	332	341/4	870	15	381	276	125	298	135	317	144	339	154
	8	49¾	1264	37¾	959	<b>19</b> <sup>15</sup> ⁄ <sub>16</sub>	506	911/16	246	541//8	1375	401/8	1019	<b>27</b> <sup>7</sup> / <sub>16</sub>	697	<b>15</b> <sup>11</sup> / <sub>16</sub>	399	36%	937	<b>17</b> <sup>3</sup> ⁄ <sub>16</sub>	437	441	200	483	219	516	234	558	253
	10	57¾	1467	45¾	1162	2313/16	605	<b>11</b> <sup>3</sup> ⁄ <sub>16</sub>	285	66	1676	491/2	1257	32½	826	<b>17</b> 5⁄16	440	441/2	1124	20	508	723	328	783	355	893	405	950	431

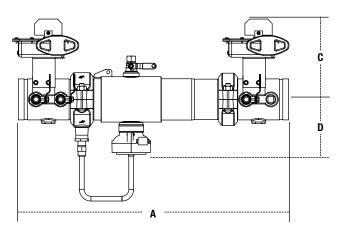


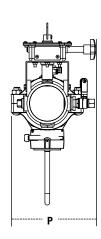




### 957NBFG, 957ZBFG

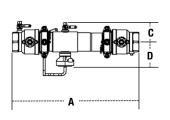
SIZE						DIMEN	ISIONS						WE	IGHT
	G	ì	ŀ	1	1		J		M		P		9571	V/957Z
in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb	kg
21/2	321/2	826	23	584	15½	394	91/2	241	19¾	502	<b>11</b> <sup>13</sup> ⁄ <sub>16</sub>	300	67	30
3	34	864	24	610	<b>16</b> 5⁄16	414	101/16	256	211/4	540	121//8	308	70	32
4	35%	905	25½	648	<b>17</b> <sup>3</sup> ⁄ <sub>16</sub>	437	<b>10</b> <sup>15</sup> / <sub>16</sub>	279	23½	597	125/8	321	87	39
6	461/2	1181	351/4	895	201/2	521	13½	343	271/4	692	15	382	160	73



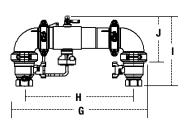


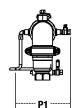
### 957 BFG

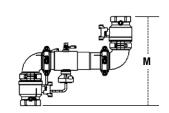
SIZE		DIMENSIONS												
	A		C	;	D	)	Р							
in.	in.	mm	in.	mm	in.	mm	in.	mm	lb	kg				
4	29	737	7¾	197	6%	162	9½	241	66	30				
6	36½	927	911/16	246	<b>7</b> ½16	189	141/4	362	122	55				











### 957QT

SIZ	Έ											DIMENSIONS										WEI	GHT	
		Д	١		С		D	0	ì		Н	I			N	1	Р		P1		Q	T	Q.	TN
in.		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in. mr	in.	mm	in.	mm	in.	mm	in.	mm	lb	kg	lb	kg
21/2	2	<b>27</b> <sup>1</sup> / <sub>2</sub>	698	47/8	124	67/8	175	301/4	768	21½	546	16 <sup>1</sup> / <sub>16</sub> 40	113/8	289	197/8	505	<b>11</b> <sup>5</sup> ⁄ <sub>16</sub>	287	<b>11</b> 5/16	287	46	21	57	26
3		28	711	47/8	124	6 <sup>7</sup> /8	175	301/4	768	221/4	565	169/16 420	11%	289	207/8	531	<b>11</b> 5/16	287	<b>11</b> <sup>5</sup> ⁄ <sub>16</sub>	287	56	25	67	30
4		283/4	730	47/8	124	67/8	175	301/4	768	23½	597	18 <sup>5</sup> / <sub>16</sub> 46	11%	289	243/8	619	<b>11</b> 5/16	287	<b>11</b> 5/16	287	76	34	87	39

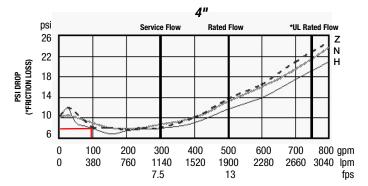
### Capacity

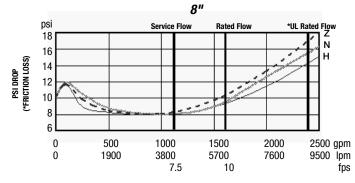
Flow curves as tested by Underwriters Laboratories.

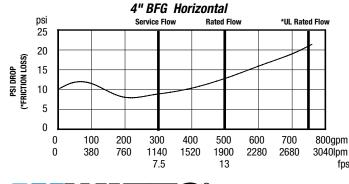
Flow characteristics collected using butterfly shutoff valves.

—— Horizontal — N-pattern ---- Z-pattern

21/2" psi Service Flow Rated Flow \*UL Rated Flow 18 16 14 (\*FRICTION LOSS) 12 10 8 6 0 50 100 150 200 350 gpm 0 190 380 570 760 950 1140 1330 lpm 7.5 15 fps

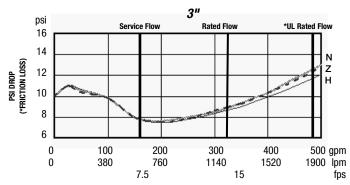


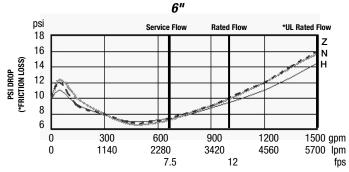


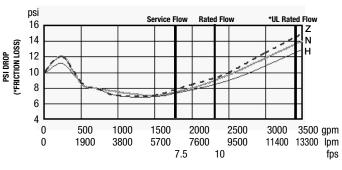


Flow capacity chart identifies valve performance based upon rated water velocity up to 25 fps.

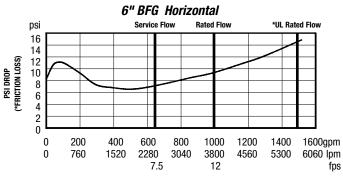
- Service Flow is typically determined by a rated velocity of 7.5 fps based upon schedule 40 pipe.
- Rated Flow identifies maximum continuous duty performance determined by AWWA.
- UL Flow Rate is 150% of Rated Flow and is not recommended for continuous duty.
- AWWA Manual M22 (Appendix C) recommends that the maximum water velocity in services be not more than 10 fps.







10"





ES-957-FS 2230 © 2022 Watts

### **Engineering Specification**

Job Name	Contractor
	Approval
Job Location	Approval
Engineer	Contractor's P.O. No.
Approval	Representative

## **LEAD FREE\***

# Series LF009 and LF009-FS

### Reduced Pressure Zone Assemblies

Size: 1/4" - 3"

Series LF009 and LF009-FS Reduced Pressure Zone Assemblies are designed to protect potable water supplies in accordance with national plumbing codes and water authority requirements. These series are 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. They are also used in irrigation systems, boiler feed, water lines, and other installations requiring maximum protection. The body construction is fused with ArmorTek<sup>TM</sup> coating technology to resist corrosion due to microbial induced corrosion (MIC) or exposed metal substrate.\* The series also features Lead Free\* construction to comply with Lead Free\* installation requirements.

Both series feature 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 ½" to 1" shutoffs have tee handles.

Series LF009-FS assemblies of sizes ½" to 2" include an integrated flood sensor to detect excessive water discharges from the relief valve. When activated through an add-on sensor connection kit, the flood sensor relays a signal that triggers notification to qualified service personnel who can take corrective action, thus avoiding the possibility of ruinous flooding and costly damage. The add-on sensor connection kit is available for both building management systems, or BMS, and cellular communication. (For more information, refer to *Installation*, *Maintenance*, and *Repair Manual*, *Series 009-FS and LF009-FS*.)

### **Features**

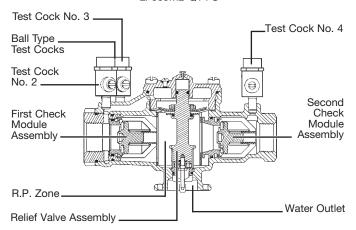
- Single access cover and modular check construction for ease of maintenance
- Top entry to all internals for immediate accessibility
- Captured springs for safe maintenance
- Internal relief valve for reduced installation clearances
- Replaceable seats for economical repair
- ArmorTek<sup>™</sup> coating technology to resist internal corrosion†
- Lead Free\* cast copper silicon alloy body construction (1/4" 2")
- Fused epoxy coated cast iron body (2½" 3")
- Ball valve test cocks screwdriver slotted (1/4" 2")
- Large body passages provides low pressure drop
- Compact, space saving design
- No special tools required for servicing
- Integrated sensor for flood detection (1/2" 2")

### NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.



LF009M2-QT-FS



### Specification

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 valve body shall utilize a coating system with built-in electrochemical corrosion inhibitor and microbial inhibitor.† The assembly shall meet the requirements of USC; ASSE Std. 1013; AWWA Std. C511; CSA B64.4. Shall be a Watts Series LF009.

### NOTICE

Inquire with governing authorities for local installation requirements.

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.



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

<sup>†</sup>Amortek coating applied to the 21/2" and 3" models only.

### **Engineering Specification**

Job Name	Contractor
Job Location	Approval
Engineer	Contractor's P.O. No.
Approval	Representative

# Air Gaps, Elbows, and Test Cocks

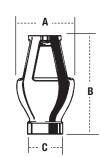
### For Reduced Pressure Zone Assemblies

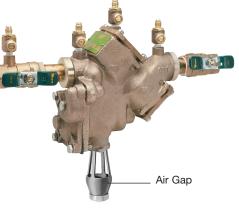
### Air Gaps

An air gap provides the unobstructed, physical separation between the discharge end of a potable water supply line and an open receiving vessel.

The installation of an air gap and drain line are recommended.

If using an air gap on an assembly equipped with a flood sensor, order the air gap listed for that specific flood sensor assembly model.





909 QT/LF909 QT

### **Approvals**

ANSI/ASME A112.1.2

	ORDERING					DIME	NSIONS				
MODEL	CODE	SIZE/SERIES	FLOOD SENSOR MODEL/SIZE		A		В	C (	NPT)	WEI	GHT
				in.	mm	in.	mm	in.	mm	lb	kg
		½" – ½" 009/LF009	009/LF009 ½"								
909AGA	0881399	3/4" 009/LF009M2/M3	009/LF009M2/M3 3/4"	<b>2</b> <sup>3</sup> / <sub>8</sub>	60	31/8	79	1/2	13	0.63	0.28
		½" – 1" 995	LF919 ½" – 1"								
		<sup>3</sup> / <sub>4</sub> " – 1" 009/LF009, 909/	009/LF009, 909/LF909								
909AGC	0881376	LF909	3/4" - 1"	31/4	83	47/8	124	1	25	1.50	36.0
SUSAUC	0001370	1" - 1½" 009/LF009M2	009/LF009M2 1" - 1½"	374	03	47/8	124	'	23	1.50	0.00
		11/4" – 2" 995	LF919 1¼" – 2"								
		<sup>3</sup> ⁄ <sub>4</sub> " – 1" 909									
909AGC-B	0881377	1" - 1½" 009M2	_	31/4	88	33/4	95	1	25	1.90	0.86
		1½" – 2" 995									
		1 <sup>1</sup> / <sub>4</sub> " – 3" 009/LF009, 909/	009/LF009, 909/LF909								
909AGF	0881378	LF909	11/4" – 3"	43/8	111	63/4	171	2	51	3.25	1.47
JUJAUI	0001370	1 <sup>1</sup> / <sub>4</sub> " – 2" 009/LF009M1	009/LF009M1 1¼" - 2"	4/0	111	0/4	171		31	3.23	1.47
		2" 009/LF009M2	009/LF009M2 2"								
		4" - 6" 909/LF909	909/LF909 4" - 6"								
909AGK	0881385	4" - 10" 909RPDA	909RPDA 4" - 10"	63/8	162	95%	244	3	76	6.25	2.83
		8" - 10" 909/LF909M1	909/LF909M1 8" - 10"								
909AGM	0881387	8" - 10" 909/LF909	_	7%	187	1111/4	286	4	102	15.50	7.03
919AGC	0881576	3/4" - 1" 919/LF919	_	23//8	60	31//8	79	1/2	13	0.63	0.28
919AGF	0881577	11/4" – 2" 919/LF919	_	43//8	111	81/2	216	2	51	3.5	1.6
957-AG	0111764	2½" – 10" 957	957 2½" – 10"	71/2	190	12	304	2	51	1.50	0.68
	0111704	2/2 10 337	994 2½" – 10"	1 /2	150	12	- 504		- 51	1.00	0.00
Splash Guar	d										
994AGK-P	0881397	2½" – 10" 994	_	8	203	1111/4	286	2	51	1.50	0.68
995-AG	0439190	3" - 6" 995	_	5	127	8	203	2	51	-	-
957-AG SG	0111815	2½" – 10" 957	_	43/4	119	21/2	62	_	_	0.4	0.18

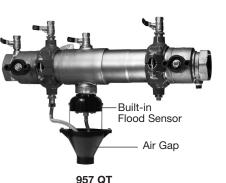
### NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Inquire with governing authorities for local installation requirements.

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.





### Vent Elbows

Used with Watts air gaps for vertical installation of Reduced Pressure Zone assemblies.

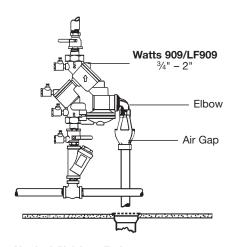
Series 909 sizes 3/4" and 1" are approved for vertical installation.



		ORDERING				DIMEN	ISIONS				
MODEL	MATERIAL	CODE	SIZE/SERIES		A		В		С	WEI	GHT
				in.	mm	in.	mm	in.	mm	lb	kg
909EL-A	Bronze	0881370	1/4"-1/2" 009/LF009 3/4" 009/LF009M2/M3 1/2"-1" 995	_	_	_	_	_	_	_	_
909EL-C	Iron	0881380	3/4"-1" 009/LF009, 909/LF909 1"-11/2" 009/LF009M2 11/4"-2" 995	23%	60	23/8	60	_	_	0.38	0.17
909EL-F	Gray Cast Iron with Zinc Phosphate	0881382	1½"-2" 009/LF009M1 1½"-2" 009/LF009, 909/LF909 2" 009M2	35%	92	35%	92	_	_	2	0.91
909EL-H	Primer	0881384	2½"-3" 009/LF009, 909/LF909	_	_	_	_	2	51	_	_
919 EL-C	Bronze	0881578	3/4"-1" 919/LF919	21/4	57	25/8	67	_		0.63	0.28
919 EL-F	Cast Iron	0881579	1 <sup>1</sup> / <sub>4</sub> "-2" 919/LF919	51/4	133	4	102	_	_	2	0.9
994EL-F	Steel Epoxy Coated	0881396	2½"–10" 994	47/8	124	9	229	2	51	4	1.8

### NOTICE

Not all RPZ assemblies have certification for vertical installation. Inquire with governing authorities for local installation allowances.



### **Vertical (Up) Installation**

Use the elbow as shown when vertical installation is allowed.

# Test Cocks - Lead Free\*

For use with backflow preventers, isolation valve for gauges, isolation valves for small equipment lines.

- Full port ball valve design
- Screwdriver slot to open and close
- Available ½" M x ½" F (0792001) or 1/4" M x 1/4" F (0792000)

### LFSAE-TC

- Full port ball valve design
- Screwdriver slot operation
- Available ½" M x SAE (0792002)



### No. 3 LFTC with O-Ring

• Full port ball valve design

LFTC for SilverEagle® • 1/2" TC for 21/2" - 4"

3/4" TC for 6" - 10"

• 3/4" TC for 6" - 10"

• For  $2\frac{1}{2}$ " – 4" Series 757 and 957 (0792522)

Series 757 and 957 (0792520)

Series 757 and 957 (0792521)

with MNPT thread (0792525)

• For 6" - 10" Series 757 and 957 (0792523)

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



### Accessories Cap and Tether

### Plastic cap and tether

(Four required per backflow preventer)

- Fits 1/4" Female test cocks
- Plastic dust cap and rubber tether
- RK-TC 1/8 (0888846)

### **SAE-TC Brass Cap**

Protects SAE-TC from dirt and debris (0006902)



# **SAE-TC Adapter**

- 1/4" female SAE x 7/16" FPT
- Adapts to SAE-TC for use with pressure gauge and/or site tube
- SAE-TC Adapter (0006903)



(Four required per backflow preventer)

- Fits 0888846 M x SAE test cocks
- · Brass dust cap with O-ring seal and rubber tether
- RK-SAE-TC (0888845)







**USA:** T: (800) 224-1299 • Watts.com Canada: T: (905) 332-4090 • Watts.ca Latin America: T: (52) 55-4122-0138 • Watts.com

ES-AG/EL/TC 2351 © 2023 Watts

### Available Models: 1/4" - 2"

#### Prefix:

U- Union connections

### Suffix:

LF – Without shutoff valves PC – Internal polymer coating

Press\*\* – Press inlet x press outlet ( $\frac{1}{2}$ " – 2")

QT – Quarter-turn ball valves

S - Strainer

### Available Models: 21/2" - 3"

### Suffix:

LF - Without shutoff valves

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

NOTE: The installation of a drain line is recommended. When installing a drain line, an air gap is necessary. (For more information download ES-AG/EL/TC at watts.com.)

### Materials: 1/4" - 2"

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 relief valve seats. 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: 21/2" - 3"

- 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"

Suitable for supply pressure up to 175 psi (12.1 bar) Water temperature:  $33^{\circ}F - 180^{\circ}F$  (0.5°  $- 82^{\circ}C$ )

### Sizes 21/2" - 3"

Suitable for supply pressures up to 175 psi (12.1 bar) Water temperature: 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 NRS, OSY, PC, QT

**UL Classified** 

21/2" - 3" with OSY gate valves

<sup>3</sup>/<sub>4</sub>" - 2" without shutoff valves (-LF), except LF009M3LF

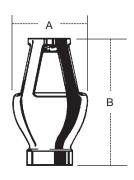
### Insulated Enclosure

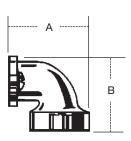
The WattsBox insulated enclosure is available for Series LF009/LF009-FS. For more information download ES-WB at watts.com.

### Air Gaps and Elbows

MODEL		DRAIN	OUTLET		DIMEN	SIONS		WEI	GHT
	For 909, 009, and 993 sizes				A	Е	3		
		in.	mm	in.	mm	in.	mm	lb	kg
909AGA	½"-½" 009,	1/2	13	23//8	60	31//8	<del>79</del>	0.625	0.28
	3/4" 009M2/M3								
909AGC	3/4"-1" 009/909,	1	25	31/4	83	47/8	124	1.5	0.68
	1"-1½" 009M2								
909AGF	1¼"–2" 009M1,	2	51	43/8	111	6¾	171	3.25	1.47
	11/4"-3" 009/909,								
	2" 009M2, 4"-6" 993								
909AGK	4"-6" 909,	3	76	6%	162	95/8	244	6.25	2.83
	8"-10" 909M1								
909AGM	8"-10" 909	4	102	7%	187	1111/4	286	15.5	7.03
909ELA	1/4"-1/2" 009, 3/4" 009M2/M3	_	_	_	-	_	-	_	_
909ELC	3/4"-1" 009/909	_	-	23/8	60	2%	60	0.38	0.17
909ELF*	1¼"-2" 009M1,	_	-	35/8	92	35/8	92	2	0.91
	11/4"-2" 009/909,								
	2" 009M2, 4"-6" 993								
909ELH*	21/2"-3" 009/909	_	_	_	_	-	_	_	_
Vertical									

<sup>\*</sup>Epoxy coated



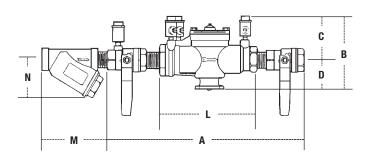


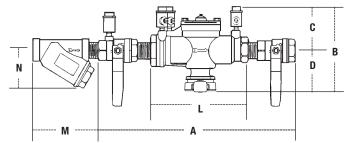
 $<sup>^{\</sup>star\star}$  Viega ProPress® connections are optional factory-installed fitting on each end of the approved/certified assembly.

### **Dimensions - Weight**

Size: 1/4" - 3/8"

Size: 1/2" - 2"

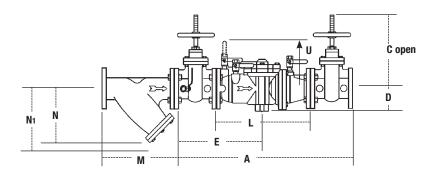


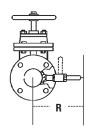


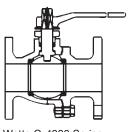
	SIZE	DIMENSIONS (APPROX.)														WEI	GHT
_		В С			2	D		L		M		N					
	in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in	mm	in	mm	lb	kg
	1/4	10	250	<b>4</b> 5⁄/8	117	3%	86	11/4	32	51/2	140	23/8	60	21/2	64	5	2
	3/8	10	250	45/8	117	3%	86	11/4	32	51/2	140	23/8	60	21/2	64	5	2
SG:	1/2	10	250	57/8	149	3%	86	21/2	64	5½	140	23/4	70	21/4	57	5	2
	3/4	10¾	273	61/4	159	3½	89	23/4	70	6¾	171	33/16	81	23/4	70	6	3
	1	141/2	368	61/4	159	3	76	31/4	83	91/2	241	3¾	95	3	76	12	5
	11/4	17%	441	63/4	169	31/2	89	31/4	83	11%	289	47/16	113	31/2	89	15	6
_	1½	171//8	454	63/4	169	31/2	89	31/4	83	111//	283	47/8	124	4	102	16	7
	2	21%	543	8¾	222	41/2	114	41/4	108	13½	343	55/16	151	5	127	30	13

### **Dimensions - Weight**

Size: 21/2" - 3"







Watts G-4000 Series QT – Ball Valves

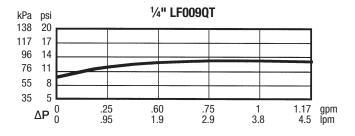
STRA	INER SIZE		WEIGHT						
		N	1		N	N	11†		
in.	mm	in.	mm	in.	mm	in.	mm	lb	kg
21/2	65	10	254	61/2	165	93/4	248	28	12.7
3	80	101//8	257	7	178	10	254	34	15.4

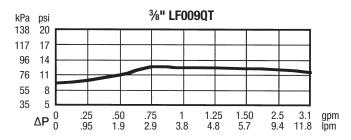
<sup>†</sup>Clearance for servicing

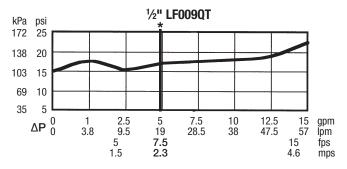
MODEL	SIZE	DIMENSIONS (APPROX.)														WEI	IGHT
		A		C		D		E		L		R		U			
	in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb	kg
LF009LF	21/2	_	_	_	_	41/2	114	_	_	181//8	460	_	_	10%	270	76	34.5
LF0090SY	21/2	331/4	845	157/8	403	41/2	114	16%	416	181/8	460	73/4	197	10%	270	166	75.3
LF009NRS	21/2	331/4	845	11%	289	41/2	114	16%	416	181/8	460	73/4	197	10%	270	161	73.0
LF009LF	3	_	_	_	_	41/2	114	_	_	181/8	460	_	_	10%	270	76	34.5
LF0090SY	3	341/4	870	18½	470	41/2	114	16%	422	181/8	460	83/4	222	10%	270	198	89.8
LF009NRS	3	341/4	870	12¾	324	41/2	114	16%	422	181/8	460	83/4	222	10%	270	191	86.6

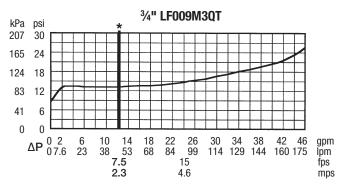
### Capacity

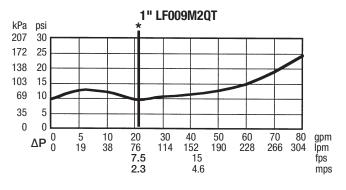
Performance as established by an independent testing laboratory.



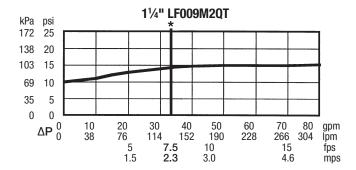


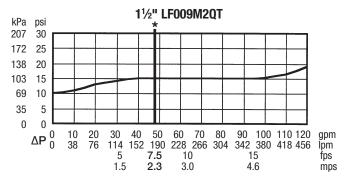


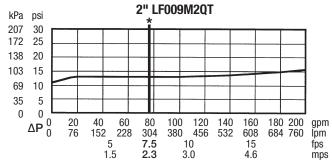


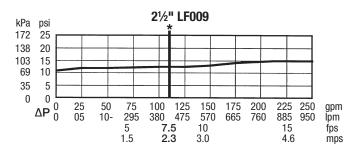


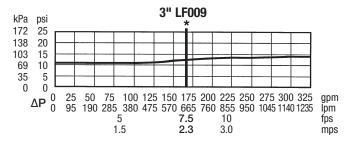
The asterisk (\*) indicates the typical maximum system flow rate (7.5 ft/sec, 2.3 m/sec).













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