THE PREPARATION ROOM SPECIALISTS | SINCE 1991

For Health Hazard Applications Job Name _____ Contractor _____ Job Location ____ Approval _____ Contractor's P.O. No. _____ Approval _____ Representative _____

Series 009

Reduced Pressure Zone Assemblies

Sizes: 1/4" - 2"

Series 009 Reduced Pressure Zone Assemblies are designed to protect potable water supplies in accordance with national plumbing codes and water authority requirements. This series is designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fireline, or industrial processing.

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 $\frac{1}{4}$ " – 1" shutoffs have tee handles.

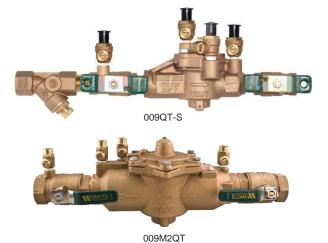
Features

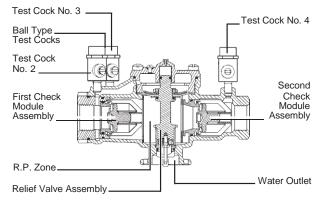
- Single access cover and modular check construction for ease of maintenance
- Top entry all internals immediately accessible
- · Captured springs for safe maintenance
- Internal relief valve for reduced installation clearances
- · Replaceable seats for economical repair
- Bronze body construction for durability ¼" − 2"
- Ball valve test cocks screwdriver slotted ¼" −2"
- 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 bronze cover secured with stainless steel bolts. 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. C511-92; CSA B64.4. Shall be a Watts Series 009.

†Does not indicate approval status. Refer to Page 2 for approved sizes & models.





Now Available

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

NOTICE

Inquire with governing authorities for local installation requirements

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.

Wattsproductspecifications in U.S. customary units and metricare 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.



DST 440 Product Submittal

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Available Models: 1/4" - 2"

Suffix:

QT - quarter-turn ball valves

S - bronze strainer

LF - without shutoff valves

AQT – elbow fittings for 360° rotation

3/4" - 2" only

PC - internal Polymer Coating

SH - stainless steel ball valve handles

HC – 2½" inlet/outlet fire hydrant fitting (2" valve)

Prefix

C – clean and check strainer 3/4" – 1" only

U – union connections (see ES-U009)

Materials: 1/4" - 2"

Bronze 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. For optional bronze union inlet and outlet connections, specify prefix U ($\frac{1}{2}$ " – 2"). Series 009QT furnished with quarter turn, full port, resilient seated, bronze ball valve shutoffs.

Pressure / Temperature

Series 009 ¼" - 2" Suitable for supply pressure up to 175psi (12.1 bar). Water temperature: 33°F - 180°F (0.5°C - 75°C).

Standards

USC

ASSE No. 1013 AWWA C511-92

CSA B64.4

IAPMO File No. 1563.

†Does not indicate approval status. See below for approved models









Approvals

ASSE, AWWA, CSA, IAPMO

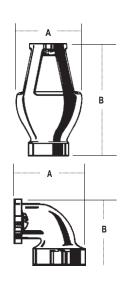
Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California.

UL Classified 3/4" - 2"

(LF models only except 009M3LF)

Air Gaps and Elbows

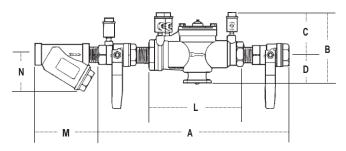
MODEL	MODEL			DRAIN OUTLET DIMENSIONS					WEIGHT		
	for 909, 009 and 993 sizes			,	A	Е	3				
		in.	mm	in.	mm	in.	mm	lbs.	kgs.		
909AGA	½"-½" 009, ¾" 009M2/M3	1/2	13	2¾	60	31//8	79	0.625	0.28		
909AGC	3/4"-1" 009/909, 1"-11/2" 009M2	1	25	31/4	83	47/8	124	1.5	0.68		
909AGF	1¼"-2" 009M1, 1¼"-3" 009/909, 2" 009M2, 4"-6" 993	2	51	4¾	111	6¾	171	3.25	1.47		
909AGK	4"–6" 909, 8"–10" 909M1	3	76	6¾	162	95/8	244	6.25	2.83		
909AGM	8"-10" 909	4	102	7%	187	111/4	286	15.5	7.03		
909ELA	1/4"-1/2" 009, 3/4" 009M2/M3	-	-	-	-	-	-	-	-		
909ELC	3/4"-1" 009/909	-	-	23/8	60	23/8	60	0.38	0.17		
* 909ELF	1½"-2" 009M1, 1½"-2" 009/909, 2" 009M2, 4"-6" 993	-	=	35%	92	35/8	92	2	0.91		
* 909ELH Vertical	2½"-3" 009/909	-	-	-	-	-	-	-	-		



^{*} Epoxy coated

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Dimensions and Weight: 1/4" - 2" 009



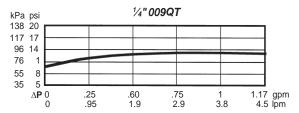
009 1/4" - 2"

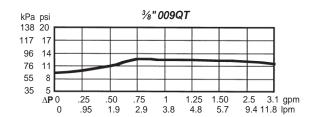
SIZE		DIMENSIONS (APPROX.)										STRAINER DIMENSIONS				WEIGHT	
	A			В		С	[)	L		M	1		N			
in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	
1/4	10	250	45/8	117	33/8	86	11/4	32	5½	140	23/8	60	21/2	64	5	2	
3/8	10	250	45%	117	33/8	86	11/4	32	5½	140	23/8	60	21/2	64	5	2	
1/2	10	250	45/8	117	33/8	86	11/4	32	5½	140	23/4	70	21/4	57	5	2	
3/4	10¾	273	5	127	3½	89	1½	38	63/4	171	33/16	81	23/4	70	6	3	
1	14½	368	5½	140	3	76	2½	64	9½	241	3¾	95	3	76	12	5	
11/4	17%	441	6	150	3½	89	2½	64	11%	289	47/16	113	3½	89	15	6	
1½	17 ⁷ / ₈	454	6	150	3½	89	2½	64	111//8	283	47//8	124	4	102	16	7	
2	21%	543	73/4	197	4½	114	31/4	83	13½	343	5 ¹⁵ / ₁₆	151	5	127	30	13	

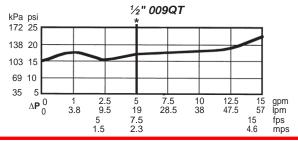
Suffix HC – Fire Hydrant Fittings dimension 'A' = 25"

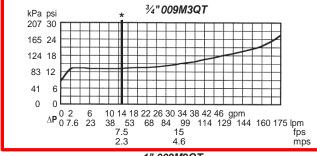
Capacity

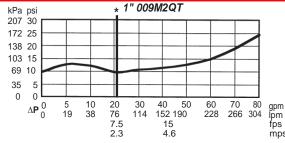
Performance as established by an independent testing laboratory.*Typical maximum system flow rate (7.5 feet/sec., 2.3 meters/sec.)

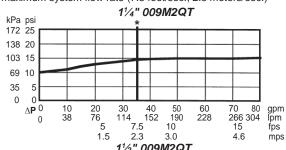


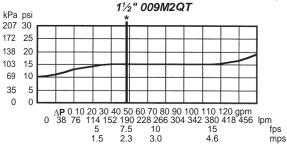


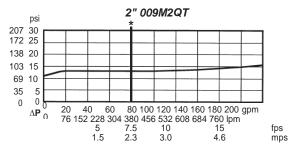












USA: T: (978) 689-6066 • F: (978) 975-8350 • Watts.com Canada: T: (905) 332-4090 • F: (905) 332-7068 • Watts.ca Latin America: T: (52) 81-1001-8600 • Watts.com

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THE PREPARATION ROOM SPECIALISTS | SINCE 1991

ES-777SI

For Liquid and Steam Service								
Job Name	Contractor							
Job Location	Approval							
Engineer	Contractor's P.O. No.							
Approval	Representative							

Series 777SI, S777SI

Wye-Pattern, Bronze Strainers

Sizes: 3/8" - 3" (10-75mm)

Series 777SI, S777SI Wye-Pattern, Bronze Strainers are designed to protect plumbing system components from dirt, rust and other damaging debris. This series features a tapped retainer cap and closure plug.

Features

- · Bronze body
- Wye-pattern
- · Tapped retainer cap
- · Closure plug
- Special flared screen opening on upstream end to provide unrestricted flow through the strainer

Models

777SI - 3/8" - 3" (10 - 80mm) threaded connections

S777SI -1/2" - 2" (15 - 50mm) solder connections†

Specifications

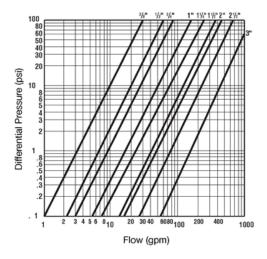
A wye-pattern, bronze strainer to be installed as indicated on the plans. The strainer must have a tapped retainer cap and closure plug. Strainer shall be rated to 400psi (27.6 bar) WOG; 125psi (8.6 bar) WSP for sizes 3/s"-2" (10-50mm) and 300psi (20.7 bar) @ 210°F (99°C); 125psi (8.6 bar) WSP @ 353°F (178°C) for sizes 2½"-3" (65-80mm). Strainer shall be a Watts Regulator Company Series 777SI (threaded ends) or S777SI (solder ends).

Materials

Body: Bronze
Retainer Cap: Brass
Plug Bronze
Gasket: NBR

Standard Screen: #20 mesh, 304 stainless steel





Flow curves show flows (gpm) and pressure drop (psig) through Watts Series 777SI, S777SI using standard 20 mesh screen.

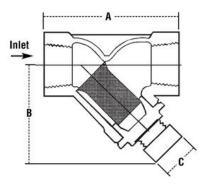


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DST 440 Product Submittal

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Dimensions



777SI SIZE (D)

SIZE	(DN)		WEIGHT						
in.			A	1	В		C		
	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
3/8	10	23/8	60	15/16	33	1/4	6	0.4	0.18
1/2	15	23/4	70	13/8	35	1/4	6	0.5	0.23
3/4	20	33/16	81	15/8	42	1/4	6	0.6	0.27
1	25	33/4	95	21/8	54	1/2	13	1.1	0.50
11/4	32	47/16	113	21/2	64	1/2	13	1.9	0.86
11/2	40	47/8	124	3	76	3/4	19	2.4	1.09
2	50	515/16	151	39/16	91	1	25	4.4	2.00
21/2	65	91/16	230	57/8	149	1/2	13	9.8	4.44
3	80	103/16	259	61/4	159	1/2	13	13.2	5.99

S777SI

SIZE (DN)			WEIGHT						
in.			A		В	, y	С	17	
	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
1/2	15	23/4	70	13/8	35	1/4	6	0.4	0.18
3/4	20	33/8	86	15/8	42	1/4	6	0.6	0.27
1	25	33/4	95	21/8	54	1/2	13	0.9	0.41
11/4	32	49/16	116	21/2	64	1/2	13	1.5	0.68
11/2	40	55/16	135	3	76	3/4	19	1.9	0.86
2	50	61/8	156	39/16	91	1	25	3.3	1.50



SO 9001

Water Safety & Flow Control Products

USA: 815 Chestnut St., No. Andover, MA 01845-6098; www.watts.com Canada: 5435 North Service Rd., Burlington, ONT. L7L 5H7; www.wattscanada.ca

ES-777SI 0542

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