For Non-Health Hazard Applications

Water Specialties Company

WATTS® REGULATOR

Series 007

Double Check Valve Assemblies

Sizes: ½" – 3" (15 – 80mm)

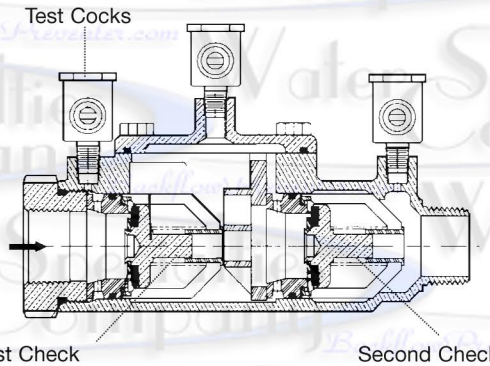
Series 007 Double Check Valve Assemblies shall be installed at referenced cross-connections to prevent the backflow of polluted water into the potable water supply. Only those cross-connections identified by local inspection authorities as non-health hazard shall be allowed the use of an approved double check valve assembly.

Check with local authority having jurisdiction regarding vertical orientation, frequency of testing or other installation requirements.

The valve shall meet the requirements of ASSE Std. 1015 and AWWA Std. C510. Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California.

¾" (20mm) 007M3QT

2" (50mm) 007M1QT HC



The 007 Series features a modular design concept which facilitates complete maintenance and assembly by retaining the spring load.

Features

- Ease of maintenance — only one cover
- Top entry
- Replaceable seats and seat discs
- Modular construction
- Compact design
- Cast bronze body construction — ½" – 2" (15 – 50mm)
- Fused epoxy coated cast iron body — 2½" – 3" (65 – 80mm)
- Top mounted ball valve test cocks
- Low pressure drop
- No special tools required for servicing
- ½" – 1" (15 – 25mm) have tee handles

Specifications

A Double Check Valve Assembly shall be installed at each noted location. The assembly shall consist of two positive seating check modules with captured springs and rubber seat discs. The check module seats and seat discs shall be replaceable. Service of all internal components shall be through a single bronze or stainless steel access cover secured with stainless steel bolts. The assembly shall also include two resilient seated isolation valves; four top mounted, resilient seated test cocks. The assembly shall meet the requirements of ASSE Std. 1015 and AWWA Std. C510. Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California. Assembly shall be a Watts Series 007.

IMPORTANT: *INQUIRE WITH GOVERNING AUTHORITIES FOR LOCAL INSTALLATION REQUIREMENTS*

WATTS®

Pressure — Temperature

½" – 2" (15 – 50mm)

Temperature Range: 33°F – 180°F (0.5°C – 82°C).

Maximum Working Pressure: 175psi (12.1 bar).

2½" – 3" (65 – 80mm)

Temperature Range: 33°F – 110°F (0.5°C – 43°C) continuous, 140°F (60°C) intermittent.

Maximum Working Pressure: 175psi (12.1 bar).

Standards

ASSE Std. 1015, AWWA Std. C510

IAPMO PS31, CSA B64.5

Approvals

† ASSE, AWWA, IAPMO, CSA, UPC

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

• Models LF and S are not listed.

◆ UL Classified (LF models only) ¾" – 2" (20 – 50mm) (except 007M3LF)

◆ UL Classified with OSY gate valves (2½" and 3" horizontal only.)

* Horizontal and vertical "flow up" approval on all sizes

Suffix:

S - bronze strainer

LF - without shutoff valves

LH - locking handle ball valves (open position)

SH - stainless steel ball valve handles

HC - 2½" inlet/outlet fire hydrant fittings (2" valve)

Prefix:

U - Union connections

2½" – 3" (65 – 80mm)

Suffix:

NRS - non-rising stem resilient seated gate valves

OSY - UL/FM outside stem and yoke resilient seated gate valves

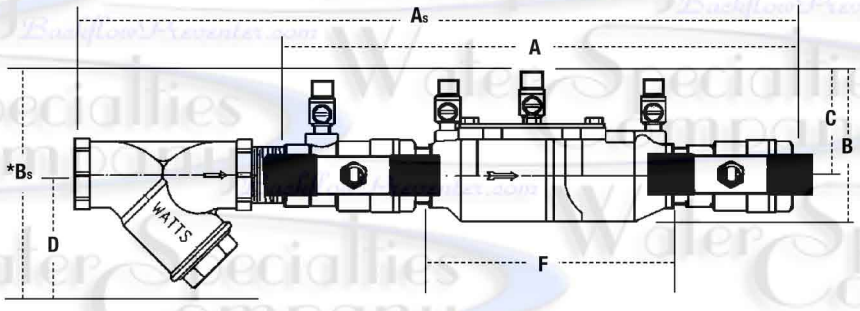
LF - without shutoff valves

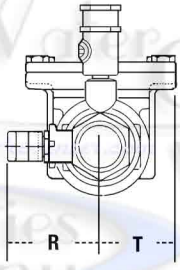
QT-FDA - FDA epoxy coated quarter-turn ball valves

Dimensions – Weights

Models

Sizes: ½" – 2" (15 – 50mm)





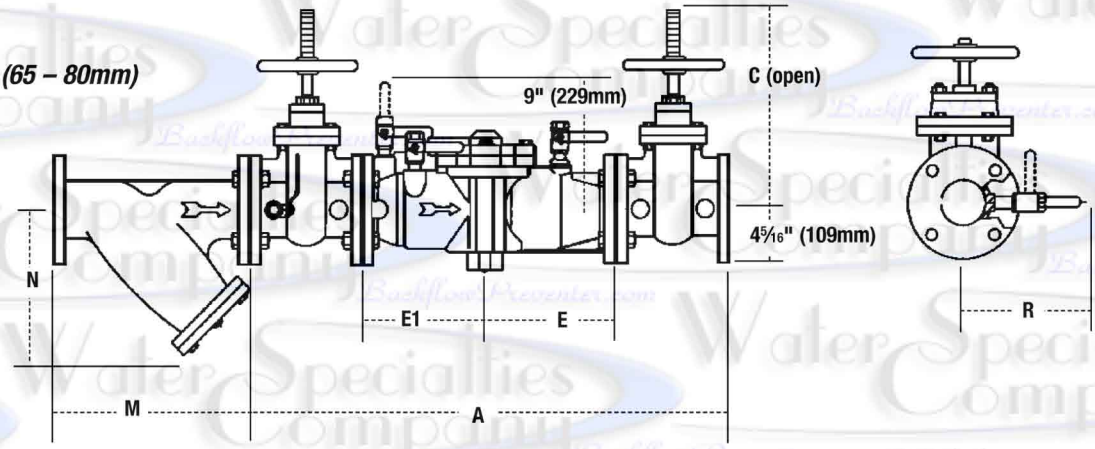
*Subscript 'S' = strainer model

Suffix HC — Fire Hydrant Fittings dimension "A" = 23½" (594mm)

MODEL	SIZE (DN)		DIMENSIONS														WEIGHT	
			A		B		C		D		F		G		R		T			
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
†▲007QT	½	15	10	254	4⅝	117	2 7/16	62	—	—	5	127	3⅜	85	2 5/16	59	2 1/16	52	4.5	2
†▲007M3QT	¾	20	11⅛	282	4	102	3⅛	79	—	—	6 3/16	157	3 7/16	87	2⅛	54	1 5/16	33	5	2.3
†▲007M1QT	1	25	13¼	337	5⅛	130	4	102	—	—	7½	191	3⅜	85	1 11/16	43	1 11/16	43	12	5.4
†▲007M2QT	1¼	32	16⅜	416	5	127	3 5/16	84	—	—	9½	241	5	127	3	76	2	50	15	6.8
†▲007M2QT	1½	40	16¾	425	4⅞	124	3½	89	—	—	9¾	248	5 13/16	148	3⅛	79	2 1/16	68	15.9	7.2
†▲007M1QT	2	50	19½	495	6¼	159	4	102	—	—	13⅜	340	6⅛	156	3 7/16	87	2 1/16	68	25.7	11.7
• 007QT-S	½	15	13	330	6	152	2 7/16	62	3	76	5	127	3⅜	85	2 5/16	59	2 1/16	52	5.5	2.5
• 007M3QT-S	¾	20	14½	368	6⅛	156	3⅛	79	3	76	6 3/16	157	3 7/16	87	2⅛	54	1 5/16	33	6.7	3.1
• 007M1QT-S	1	25	17 15/16	157	7¾	197	4	102	3¼	83	7½	191	3⅜	85	1 11/16	43	1 11/16	43	14	6.4
• 007M2QT-S	1¼	32	21½	546	7 1/16	179	3 5/16	84	3½	83	9½	241	5	127	3	76	2	50	19	8.6
• 007M2QT-S	1½	40	25 1/16	637	7 1/16	179	3½	89	3¾	95	9¾	248	5 13/16	148	3⅛	79	2 1/16	68	19.6	8.9
• 007M1QT-S	2	50	27¼	692	8¾	222	4	102	4	102	13⅜	340	6⅛	156	3 7/16	87	2 1/16	68	33.5	15.2

Dimensions – Weights

Sizes: 2½" – 3" (65 – 80mm)



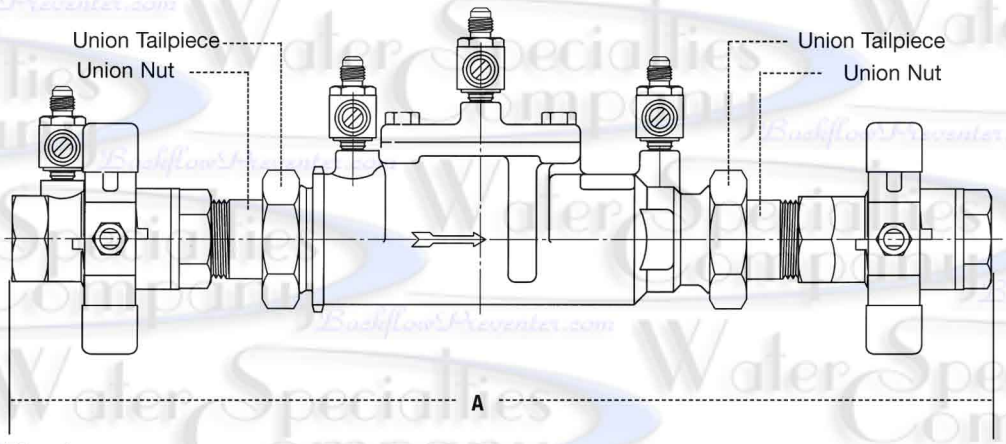
MODEL	SIZE (DN)		DIMENSIONS								WEIGHT	
			A		C		E, E1		R			
	in.	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*lbs.*	*kgs.*
007QT-FDA	2½	65	33⅛	841	6⅜	162	9¹⁄₁₆	230	8¾	222	155	70
▲ 007-NRS	2½	65	33⅛	841	9⅜	238	9¹⁄₁₆	230	8¾	222	155	70
▲◆ 007-OSY	2½	65	33⅛	841	16⅜	416	9¹⁄₁₆	230	8¾	222	158	72
007-QT-FDA	3	80	34⅛	867	6⅜	162	9¹⁄₁₆	230	8¾	222	155	70
▲◆ 007-NRS	3	80	34⅛	867	10¼	260	9¹⁄₁₆	230	8¾	222	185	84
▲ 007-OSY	3	80	34⅛	867	18⅞	479	9¹⁄₁₆	230	8¾	222	185	84

Strainer Dimensions

SIZE						WEIGHT	
		M		N			
in.	*mm*	*in.*	*mm*	*in.*	*mm*	*lbs.*	*kgs.*
2½	65	10	254	6½	165	28	13
3*	80	10⅛	267	7	178	34	15

*S Models only

1" U007M1QT



Sizes: ½" – 2" (15 – 50mm)

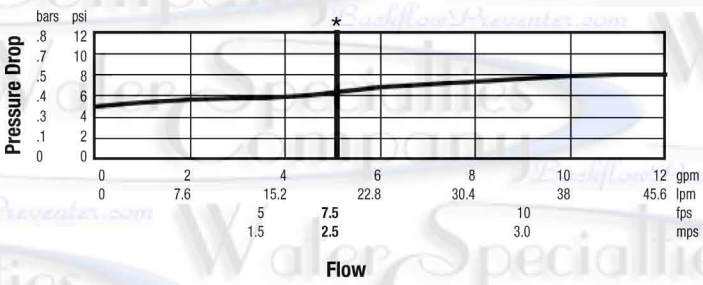
MODEL	SIZE (DN)		DIMENSIONS	
			A	
	in.	*mm*	*in.*	*mm*
U007QT	½	15	12¹³⁄₁₆	326
U007M2QT	¾	20	13¹³⁄₁₆	350
U007M2QT	1	25	16⅝	422
U007M2QT	1¼	32	20¾	527
U007M2QT	1½	40	21½	546
U007M1QT	2	50	24½	622

Capacity

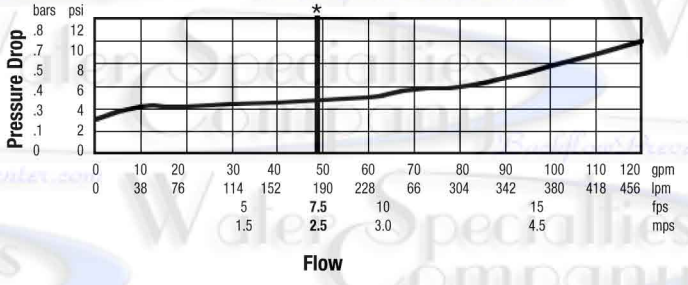
As complied from documented Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California lab tests.

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

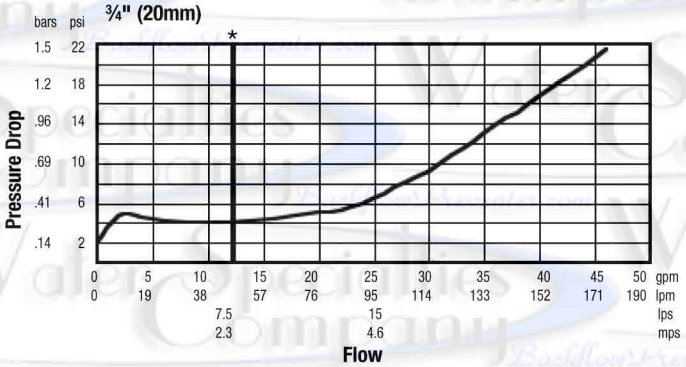
½" (15mm)



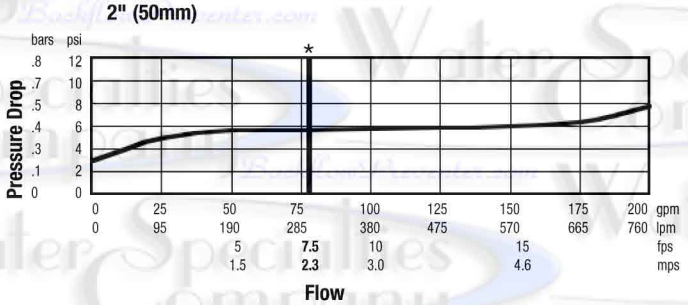
1½" (40mm)



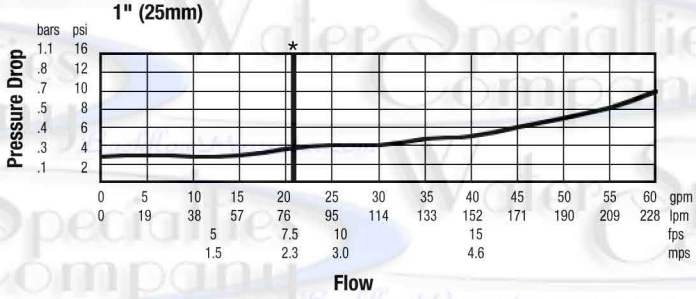
¾" (20mm)



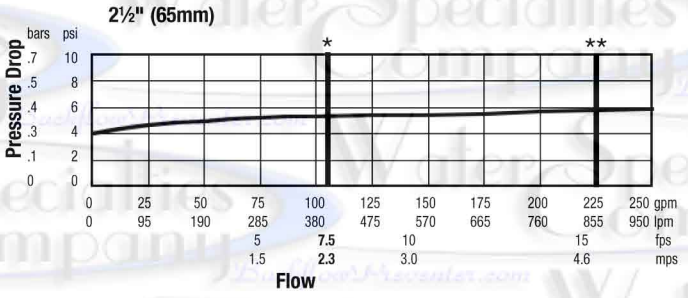
2" (50mm)



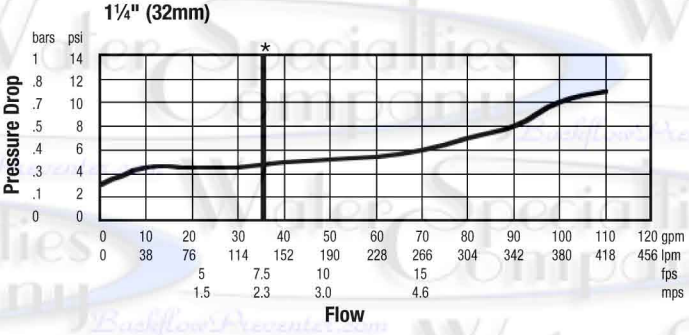
1" (25mm)



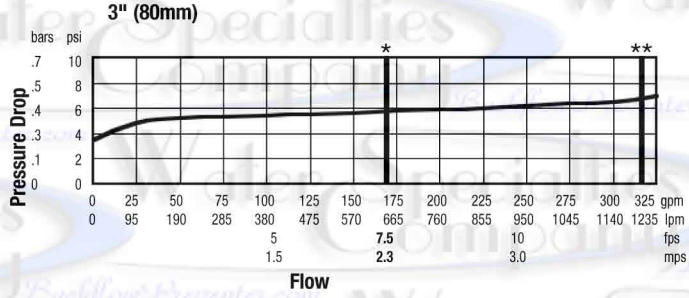
2½" (65mm)



1¼" (32mm)



3" (80mm)



WATTS®

A Watts Water Technologies Company

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