Engineering Specification

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

Series 007
Double Check Valve Assemblies

Sizes: ½" – 2"

Series 007 Double Check Valve Assemblies are 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. 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.

Features

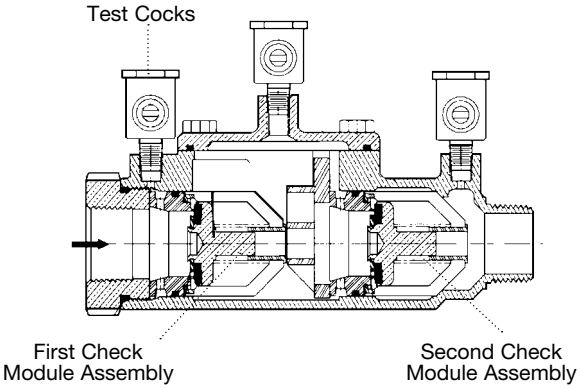
- Ease of maintenance — only one cover
- Top entry
- Replaceable seats and seat discs
- Modular construction
- Compact design
- Cast bronze body construction — ½" – 2"
- Top mounted ball valve test cocks
- Low pressure drop
- No special tools required for servicing
- ½" – 1" have tee handles

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.

1" 007M1QT

1" 007M1QT-S



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

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.

WATTS®

Pressure — Temperature

½" – 2"

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

Maximum Working Pressure: 175psi (12.1 bar).

Standards

ASSE Std. 1015, AWWA Std. C510

IAPMO PS31, CSA B64.5

Approvals

USC-FCCCHR

† 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" (except 007M3LF)

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

Suffix:

S - bronze strainer

LF - without shutoff valves

SH - stainless steel ball valve handles

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

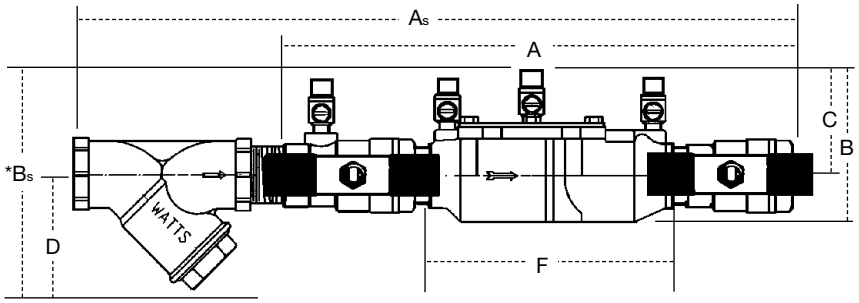
Prefix:

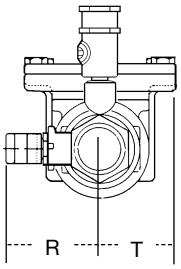
U - Union connections

Dimensions – Weights

Models

Sizes: ½" – 2"





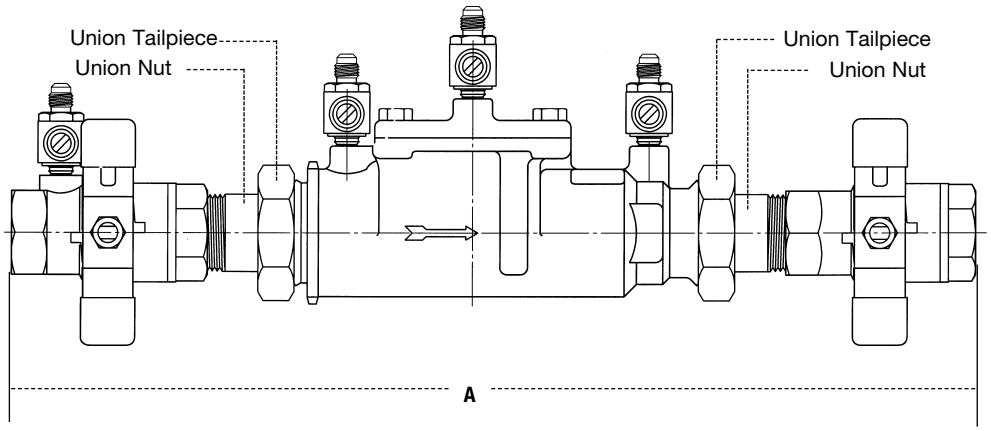
*Subscript ‘S’ = strainer model

MODEL	SIZE	DIMENSIONS																WEIGHT	
		A		B		C		D		F		G		R		T			
	in.	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*lbs.*	*kgs.*
†▲ 007QT	½	10	254	4⅝	117	2⁷⁄₁₆	62	—	—	5	127	3⅜	85	2⁵⁄₁₆	59	2¹⁄₁₆	52	4.5	2
†▲ 007M3QT	¾	11⅛	282	4	102	3⅛	79	—	—	6³⁄₁₆	157	3⁷⁄₁₆	87	2⅛	54	¹⁵⁄₁₆	33	5	2.3
†▲ 007M1QT	1	13¼	337	5⅛	130	4	102	—	—	7½	191	3⅜	85	1¹¹⁄₁₆	43	1¹¹⁄₁₆	43	12	5.4
†▲ 007M2QT	1¼	16⅜	416	5	127	3⁵⁄₁₆	84	—	—	9½	241	5	127	3	76	2	50	15	6.8
†▲ 007M2QT	1½	16¾	425	4⅞	124	3½	89	—	—	9¾	248	5¹³⁄₁₆	148	3⅛	79	2¹¹⁄₁₆	68	15.9	7.2
†▲ 007M1QT	2	19½	495	6¼	159	4	102	—	—	13⅜	340	6⅛	156	3⁷⁄₁₆	87	2¹¹⁄₁₆	68	25.7	11.7
• 007QT-S	½	13	330	6	152	2⁷⁄₁₆	62	3	76	5	127	3⅜	85	2⁵⁄₁₆	59	2¹⁄₁₆	52	5.5	2.5
• 007M3QT-S	¾	14½	368	6⅛	156	3⅛	79	3	76	6³⁄₁₆	157	3⁷⁄₁₆	87	2⅛	54	¹⁵⁄₁₆	33	6.7	3.1
• 007M1QT-S	1	17¹⁵⁄₁₆	157	7¾	197	4	102	3¼	83	7½	191	3⅜	85	1¹¹⁄₁₆	43	1¹¹⁄₁₆	43	14	6.4
• 007M2QT-S	1¼	21½	546	7¹⁄₁₆	179	3⁵⁄₁₆	84	3½	83	9½	241	5	127	3	76	2	50	19	8.6
• 007M2QT-S	1½	21¾	552	7¹⁄₁₆	179	3½	89	3¾	95	9¾	248	5¹³⁄₁₆	148	3⅛	79	2¹¹⁄₁₆	68	19.6	8.9
• 007M1QT-S	2	25¾	654	8¾	222	4	102	4	102	13⅜	340	6⅛	156	3⁷⁄₁₆	87	2¹¹⁄₁₆	68	33.5	15.2

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

Dimensions – Weights

1" U007M1QT



Sizes: ½" – 2"

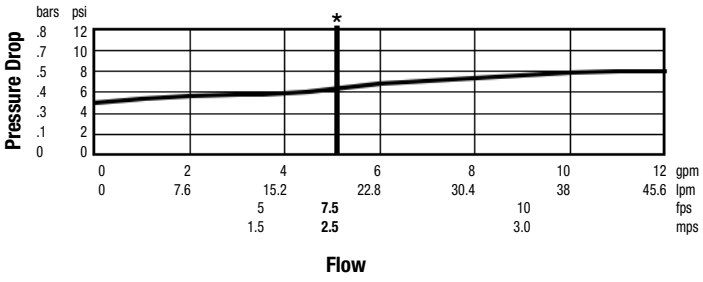
MODEL	SIZE	DIMENSIONS	
		A	
	in.	*in.*	*mm*
U007QT	½	12 13/16	326
U007M2QT	¾	13 13/16	350
U007M2QT	1	16 5/8	422
U007M2QT	1¼	20¾	527
U007M2QT	1½	21½	546
U007M1QT	2	24½	622

Capacity

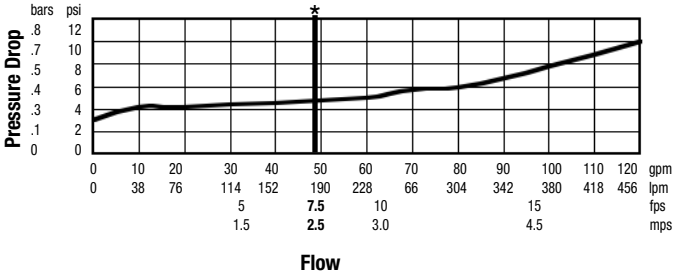
As complied from documented Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California lab tests.

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

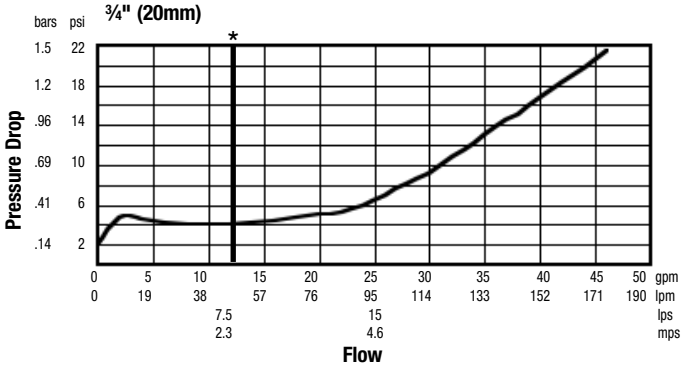
½" (15mm)



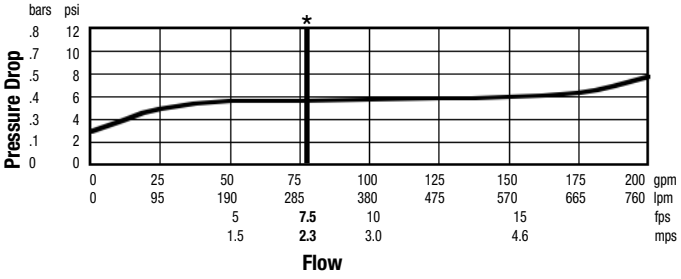
1½" (40mm)



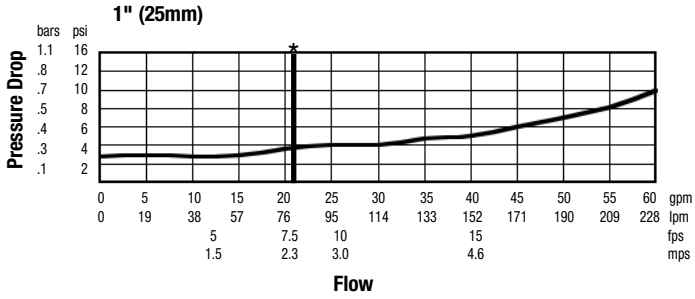
¾" (20mm)



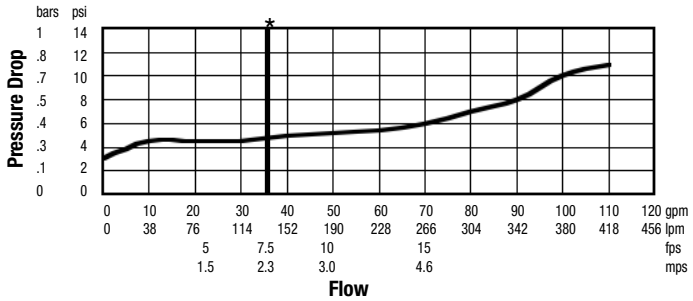
2" (50mm)



1" (25mm)



1¼" (32mm)



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