

## For Non-Health Hazard Applications

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

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

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# LEAD FREE\*

## Series LF007 Double Check Valve Assemblies

Sizes: ½" – 3" (15 – 80mm)

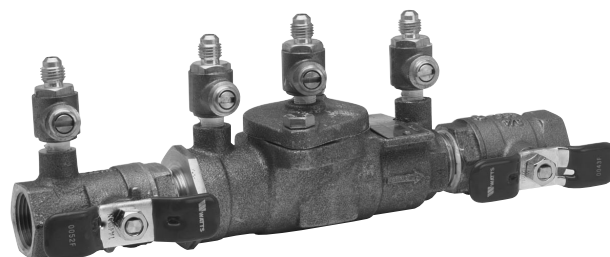
Series LF007 Double Check Valve Assemblies shall be installed at referenced cross-connections to prevent the backflow of polluted water into the potable water supply. Only those cross-connections identified by local inspection authorities as non-health hazard shall be allowed the use of an approved double check valve assembly. The LF007 features Lead Free\* construction to comply with Lead Free\* installation requirements. 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 Lead Free\* bronze body construction — ½" – 2" (15 – 50mm)
- Fused epoxy coated cast iron body — 2½" – 3" (65 – 80mm)
- Top mounted Lead Free\* ball valve test cocks
- Low pressure drop
- No special tools required for servicing
- ½" – 1" (15 – 25mm) have tee handles

### Specifications

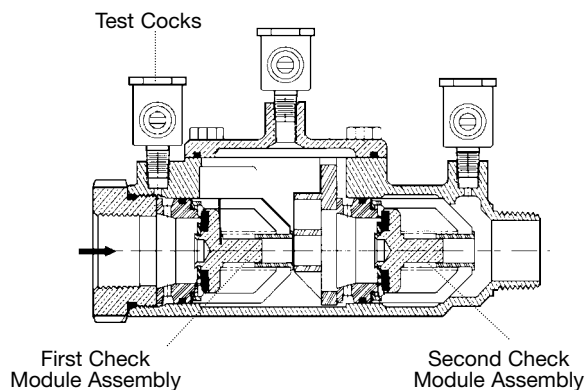
A Double Check Valve Assembly shall be installed at each noted location. The assembly shall consist of two positive seating check modules with captured springs and rubber seat discs. The check module seats and seat discs shall be replaceable. Service of all internal components shall be through a single access cover secured with stainless steel bolts. The Double Check Valve Assemblies shall be constructed using Lead Free\* materials. Lead Free\* Double Check Valve Assemblies shall comply with state codes and standards, where applicable, requiring reduced lead content. 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 LF007.



¾" (20mm) LF007M3QT



2" (50mm) LF007M1QT HC



The LF007 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.

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

\*The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (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®

## Pressure — Temperature

### 1/2" – 2" (15 – 50mm)

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

Maximum Working Pressure: 175psi (12.1 bar).

### 2 1/2" – 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 with suffix LF and S are not listed.

◆ UL Classified (without shutoff valves only) 3/4" – 2" (20 – 50mm) (except 007M3LF)

◆ UL Classified with OSY gate valves (2 1/2" 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 - 2 1/2" inlet/outlet fire hydrant fittings (2" valve)

## Prefix:

U - Union connections

### 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

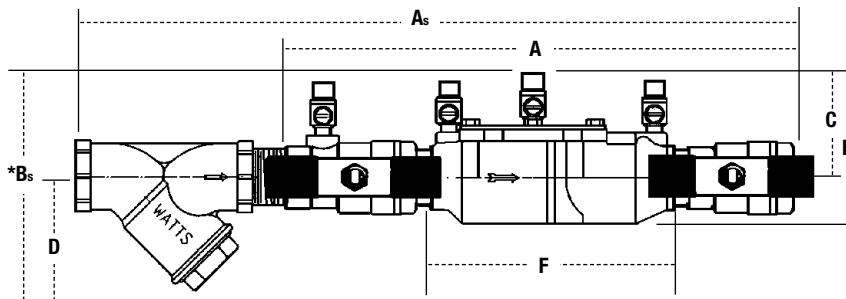
LF - without shutoff valves

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

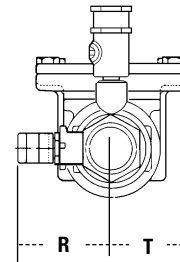
## Dimensions – Weights

### Models

Sizes: 1/2" – 2" (15 – 50mm)



\*Subscript 'S' = strainer model

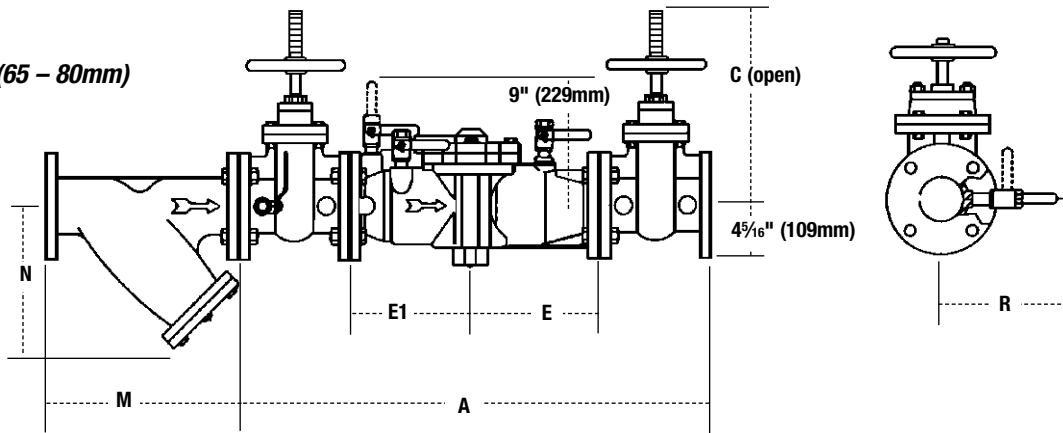


Suffix HC — Fire Hydrant Fittings dimension "A" = 23 1/2" (594mm)

MODEL	SIZE (DN)		DIMENSIONS										WEIGHT							
	in.	mm	A		B		C		D		F		G		R		T		lbs.	kgs.
†▲LF007QT	1/2	15	10	254	4 5/8	117	2 7/16	62	—	—	5	127	3 3/8	85	2 5/16	59	2 1/16	52	4.5	2
†▲LF007M3QT	3/4	20	11 1/8	282	4	102	3 3/8	79	—	—	6 3/16	157	3 7/16	87	2 1/8	54	1 5/16	33	5	2.3
†▲LF007M1QT	1	25	13 3/4	337	5 1/8	130	4	102	—	—	7 1/2	191	3 3/8	85	1 11/16	43	1 11/16	43	12	5.4
†▲LF007M2QT	1 1/4	32	16 3/8	416	5	127	3 5/16	84	—	—	9 1/2	241	5	127	3	76	2	50	15	6.8
†▲LF007M2QT	1 1/2	40	16 3/4	425	4 7/8	124	3 1/2	89	—	—	9 3/4	248	5 3/16	148	3 3/8	79	2 11/16	68	15.9	7.2
†▲LF007M1QT	2	50	19 1/2	495	6 1/4	159	4	102	—	—	13 3/8	340	6 1/8	156	3 7/16	87	2 11/16	68	25.7	11.7
• LF007QT-S	1/2	15	13	330	6	152	2 7/16	62	3	76	5	127	3 3/8	85	2 5/16	59	2 1/16	52	5.5	2.5
• LF007M3QT-S	3/4	20	14 1/2	368	6 1/8	156	3 3/8	79	3	76	6 3/16	157	3 7/16	87	2 1/8	54	1 5/16	33	6.7	3.1
• LF007M1QT-S	1	25	17 15/16	457	7 3/4	197	4	102	3 1/4	83	7 1/2	191	3 3/8	85	1 11/16	43	1 11/16	43	14	6.4
• LF007M2QT-S	1 1/4	32	21 1/2	546	7 1/16	179	3 5/16	84	3 1/2	83	9 1/2	241	5	127	3	76	2	50	19	8.6
• LF007M2QT-S	1 1/2	40	25 1/16	637	7 1/16	179	3 1/2	89	3 3/4	95	9 3/4	248	5 3/16	148	3 3/8	79	2 11/16	68	19.6	8.9
• LF007M1QT-S	2	50	27 1/4	692	8 3/4	222	4	102	4	102	13 3/8	340	6 1/8	156	3 7/16	87	2 11/16	68	33.5	15.2

## Dimensions – Weights

Sizes: 2½" – 3" (65 – 80mm)



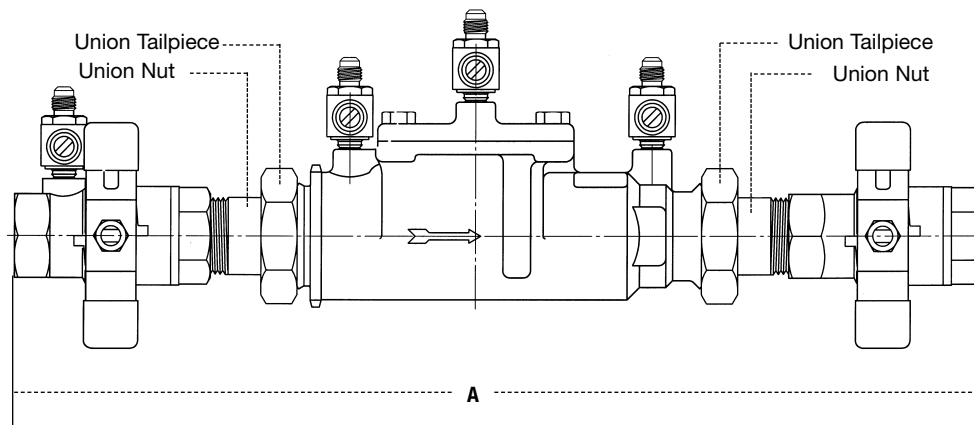
MODEL	SIZE (DN)		DIMENSIONS						WEIGHT			
	in.	mm	A		C		E, E1		R		lbs.	kgs.
LF007QT-FDA	2½	65	33⅞	841	6⅜	162	9⅛	230	8¾	222	155	70
▲ LF007-NRS	2½	65	33⅞	841	9⅞	238	9⅛	230	8¾	222	155	70
▲◆ LF007-OSY	2½	65	33⅞	841	16⅜	416	9⅛	230	8¾	222	158	72
LF007-QT-FDA	3	80	34⅞	867	6⅜	162	9⅛	230	8¾	222	155	70
▲◆ LF007-NRS	3	80	34⅞	867	10¼	260	9⅛	230	8¾	222	185	84
▲ LF007-OSY	3	80	34⅞	867	18⅞	479	9⅛	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	10⅞	267	7	178	34	15

\*S Models only

### 1" LFU007M1QT



Sizes: ½" – 2" (15 – 50mm)

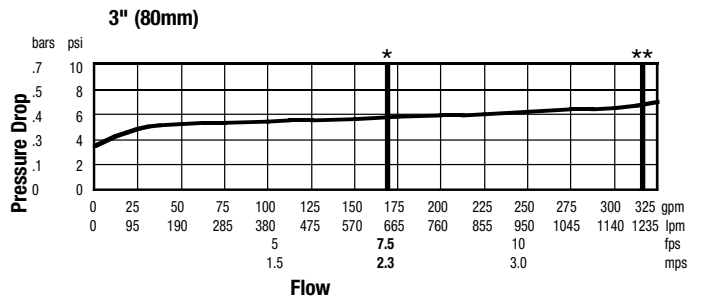
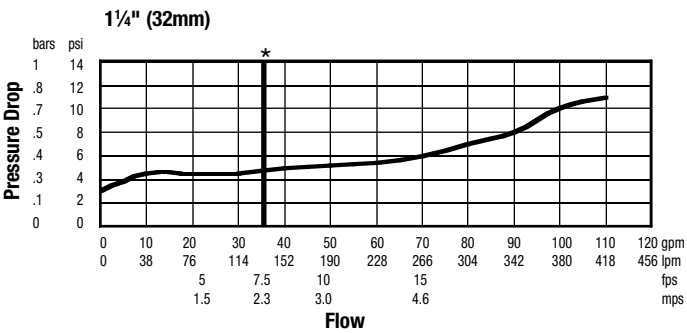
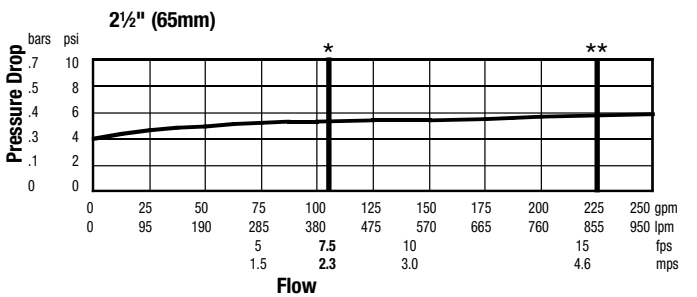
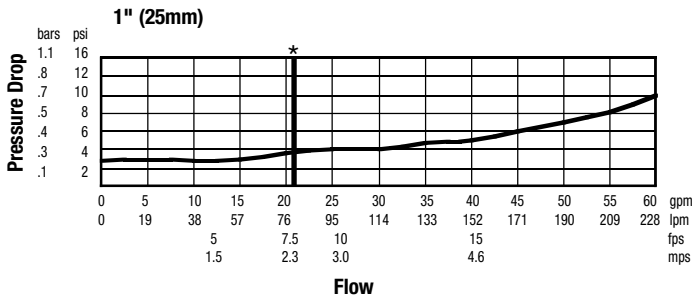
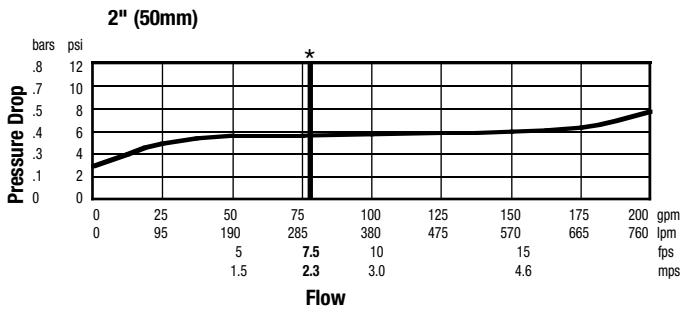
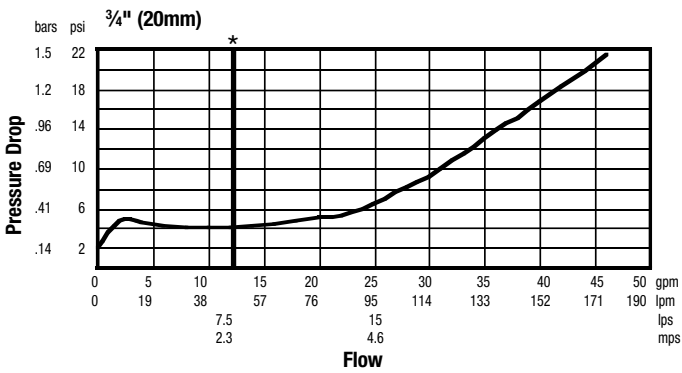
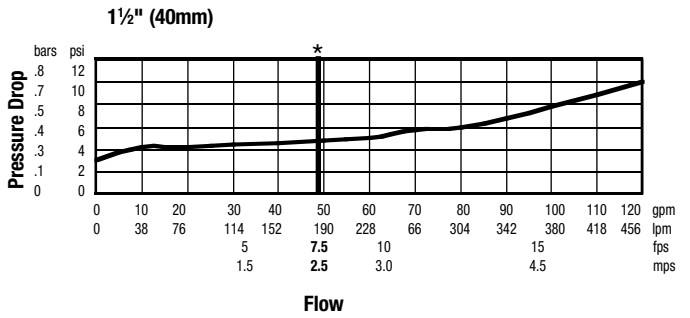
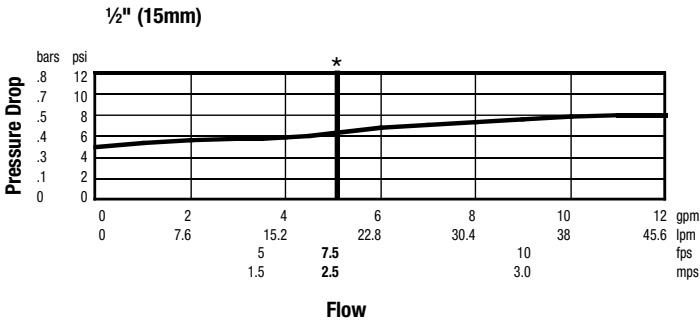
MODEL	SIZE (DN)		DIMENSIONS	
	in.	mm	A	
LFU007QT	½	15	12⅓	326
LFU007M2QT	¾	20	13⅓	350
LFU007M2QT	1	25	16⅞	422
LFU007M2QT	1¼	32	20¾	527
LFU007M2QT	1½	40	21½	546
LFU007M1QT	2	50	24½	622

# Capacity

As compiled 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



A Watts Water Technologies Company



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