

## Series LF007

### Double Check Valve Assemblies

**Size: DN15-DN50 (Thread), DN65-DN80 (Flanged)**

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

#### Features

- Lead-Free\* cast copper silicon alloy body construction
- Top-mounted Lead-Free\* ball valve test cocks
- Modular construction and compact design with the low-pressure drop
- Replaceable seats and seat discs
- Ease of maintenance — only one cover, no special tools required for servicing

#### Pressure-Temperature

- Nominal Pressure: 175 psi (Thread)  
PN12 (Flanged)
- Temperature Range: 0.5°C~43°C continuous (Thread)  
60°C intermittent (Flanged)

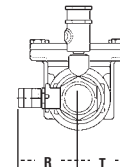
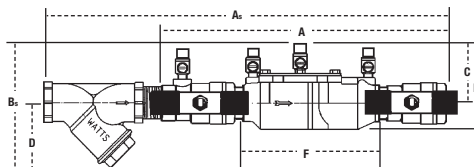
#### Test Pressure

Size	Hydraulic
DN15-DN50	175 psi
DN65-DN80	350 psi

### Installation Dimensions

**Size: DN15 - DN50**

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	in.	mm	lbs.	kgs.
LF007QT	1/2	15	10	254	4 <sup>5</sup> / <sub>8</sub>	117	2 <sup>7</sup> / <sub>16</sub>	62	-	-	5	127	3 <sup>3</sup> / <sub>8</sub>	85	2 <sup>5</sup> / <sub>16</sub>	59	2 <sup>1</sup> / <sub>16</sub>	52	4.5	2		
LF007M3QT	3/4	20	11 <sup>1</sup> / <sub>8</sub>	282	4	102	3 <sup>1</sup> / <sub>8</sub>	79	-	-	6 <sup>3</sup> / <sub>16</sub>	157	3 <sup>7</sup> / <sub>16</sub>	87	2 <sup>1</sup> / <sub>8</sub>	54	1 <sup>5</sup> / <sub>16</sub>	33	5	2.3		
LF007M1QT	1	25	13 <sup>1</sup> / <sub>4</sub>	337	5 <sup>1</sup> / <sub>8</sub>	130	4	102	-	-	7 <sup>1</sup> / <sub>2</sub>	191	3 <sup>3</sup> / <sub>8</sub>	85	1 <sup>11</sup> / <sub>16</sub>	43	1 <sup>11</sup> / <sub>16</sub>	43	12	5.4		
LF007M2QT	1 <sup>1</sup> / <sub>4</sub>	32	16 <sup>3</sup> / <sub>8</sub>	416	5	127	3 <sup>5</sup> / <sub>16</sub>	84	-	-	9 <sup>1</sup> / <sub>2</sub>	241	5	127	3	76	2	50	15	6.8		
LF007M2QT	1 <sup>1</sup> / <sub>2</sub>	40	16 <sup>3</sup> / <sub>4</sub>	425	4 <sup>7</sup> / <sub>8</sub>	124	3 <sup>1</sup> / <sub>2</sub>	89	-	-	9 <sup>3</sup> / <sub>4</sub>	248	5 <sup>13</sup> / <sub>16</sub>	148	3 <sup>1</sup> / <sub>8</sub>	79	2 <sup>11</sup> / <sub>16</sub>	68	15.9	7.2		
LF007M1QT	2	50	19 <sup>1</sup> / <sub>2</sub>	495	6 <sup>1</sup> / <sub>4</sub>	159	4	102	-	-	13 <sup>3</sup> / <sub>8</sub>	340	6 <sup>1</sup> / <sub>8</sub>	156	3 <sup>7</sup> / <sub>16</sub>	87	2 <sup>11</sup> / <sub>16</sub>	68	25.7	11.7		
LF007QT-S	1/2	15	13	330	6	152	2 <sup>7</sup> / <sub>16</sub>	62	3	76	5	127	3 <sup>3</sup> / <sub>8</sub>	85	2 <sup>5</sup> / <sub>16</sub>	59	2 <sup>1</sup> / <sub>16</sub>	52	5.5	2.5		
LF007M3QT-S	3/4	20	14 <sup>1</sup> / <sub>2</sub>	368	6 <sup>1</sup> / <sub>8</sub>	156	3 <sup>1</sup> / <sub>8</sub>	79	3	76	6 <sup>3</sup> / <sub>16</sub>	157	3 <sup>7</sup> / <sub>16</sub>	87	2 <sup>1</sup> / <sub>8</sub>	54	1 <sup>5</sup> / <sub>16</sub>	33	6.7	3.1		
LF007M1QT-S	1	25	17 <sup>15</sup> / <sub>16</sub>	157	7 <sup>3</sup> / <sub>4</sub>	197	4	102	3 <sup>1</sup> / <sub>4</sub>	83	7 <sup>1</sup> / <sub>2</sub>	191	3 <sup>3</sup> / <sub>8</sub>	85	1 <sup>11</sup> / <sub>16</sub>	43	1 <sup>11</sup> / <sub>16</sub>	43	14	6.4		
LF007M2QT-S	1 <sup>1</sup> / <sub>4</sub>	32	21 <sup>1</sup> / <sub>2</sub>	546	7 <sup>1</sup> / <sub>16</sub>	179	3 <sup>5</sup> / <sub>16</sub>	84	3 <sup>1</sup> / <sub>2</sub>	83	9 <sup>1</sup> / <sub>2</sub>	241	5	127	3	76	2	50	19	8.6		
LF007M2QT-S	1 <sup>1</sup> / <sub>2</sub>	40	21 <sup>3</sup> / <sub>4</sub>	552	7 <sup>1</sup> / <sub>16</sub>	179	3 <sup>1</sup> / <sub>2</sub>	89	3 <sup>3</sup> / <sub>4</sub>	95	9 <sup>3</sup> / <sub>4</sub>	248	5 <sup>13</sup> / <sub>16</sub>	148	3 <sup>1</sup> / <sub>8</sub>	79	2 <sup>11</sup> / <sub>16</sub>	68	19.6	8.9		
LF007M1QT-S	2	50	25 <sup>3</sup> / <sub>4</sub>	654	8 <sup>3</sup> / <sub>4</sub>	222	4	102	4	102	13 <sup>3</sup> / <sub>8</sub>	340	6 <sup>1</sup> / <sub>8</sub>	156	3 <sup>7</sup> / <sub>16</sub>	87	2 <sup>11</sup> / <sub>16</sub>	68	33.5	15.2		



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.



Thread



Flange

#### Specification

- Design Standard: ASSE 1015, AWWA C510
- Connection Standard: Threaded to ANSI B1.20.1  
Flanged to ASME B16.34
- Available with tee handles, sizes 15 to 25mm
- Available with different assemblies – check Models Chart

#### Approvals



#### Models

Sizes:

1/2"-2" (15-50mm)

Suffix:

S-copper silicon alloy strainer

LF-without shutoff valves

W/Press\*\*-press inlet X press outlet (1/2"-2" only)

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

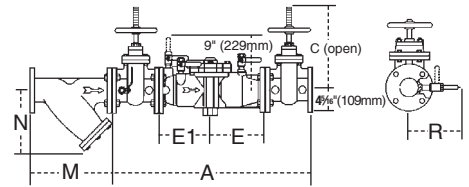
LF-without shutoff valves

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

\*\* Viega ProPress® connections are optional factory-installed fitting on each end of the approved/certified assembly.

Sizes: DN65-DN 80

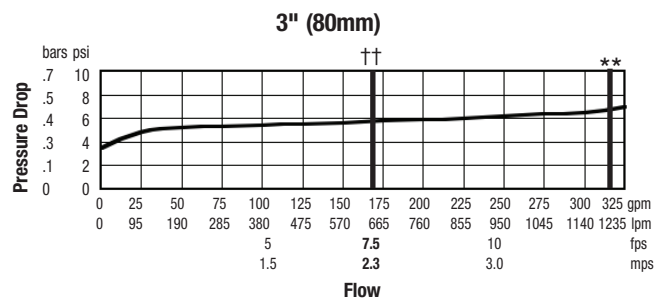
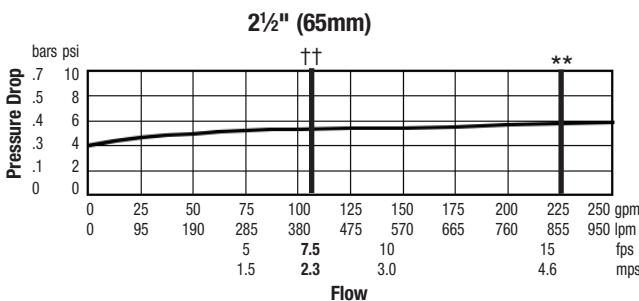
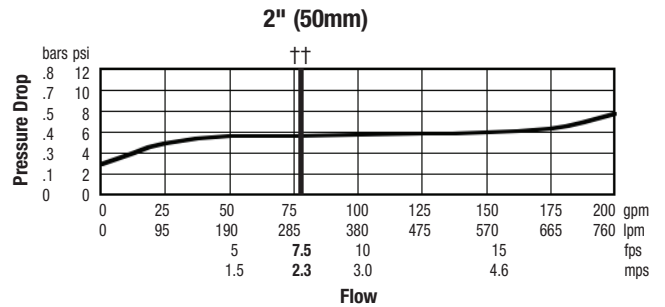
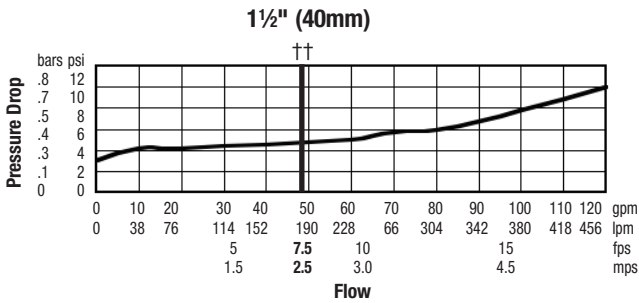
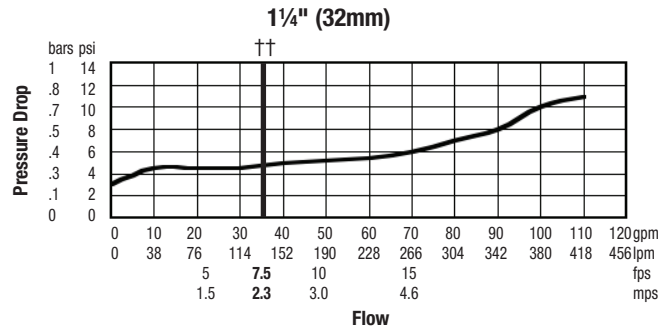
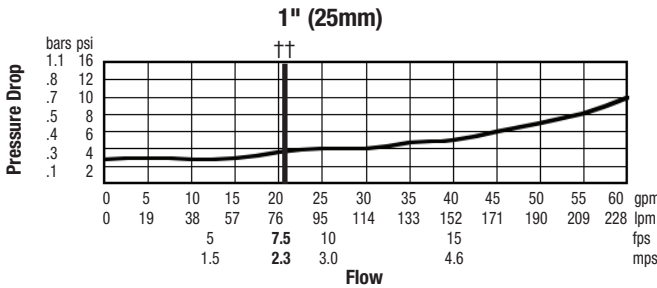
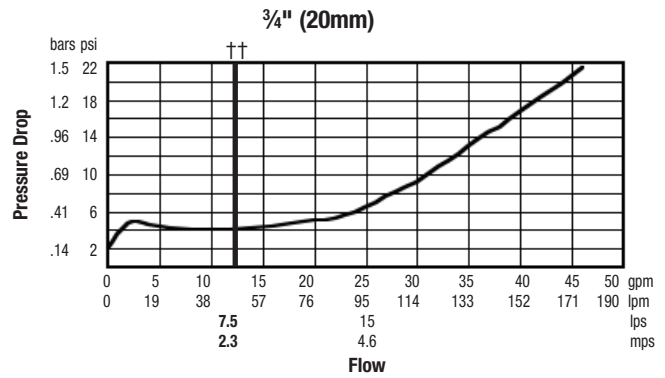
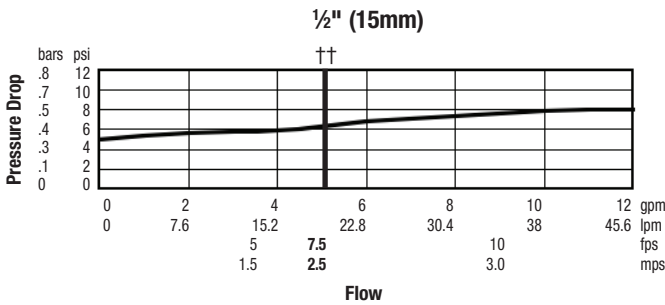
MODEL	SIZE (DN)	DIMENSIONS								WEIGHT
		A		B		E, E1		R		
	mm	in.	mm	in.	mm	in.	mm	in.	mm	kgs.
LF007QT-FDA	65	33 <sup>3</sup> / <sub>8</sub>	841	6 <sup>3</sup> / <sub>8</sub>	162	9 <sup>1</sup> / <sub>16</sub>	230	8 <sup>3</sup> / <sub>4</sub>	222	70
LF007-NRS	65	33 <sup>3</sup> / <sub>8</sub>	841	9 <sup>3</sup> / <sub>8</sub>	238	9 <sup>1</sup> / <sub>16</sub>	230	8 <sup>3</sup> / <sub>4</sub>	222	70
LF007-OSY	65	33 <sup>3</sup> / <sub>8</sub>	841	16 <sup>3</sup> / <sub>8</sub>	416	9 <sup>1</sup> / <sub>16</sub>	230	8 <sup>3</sup> / <sub>4</sub>	222	72
LF007-QT-FDA	80	34 <sup>1</sup> / <sub>4</sub>	870	6 <sup>3</sup> / <sub>8</sub>	162	9 <sup>1</sup> / <sub>16</sub>	230	8 <sup>3</sup> / <sub>4</sub>	222	70
LF007-NRS	80	34 <sup>1</sup> / <sub>4</sub>	870	10 <sup>1</sup> / <sub>4</sub>	260	9 <sup>1</sup> / <sub>16</sub>	230	8 <sup>3</sup> / <sub>4</sub>	222	84
LF007-OSY	80	34 <sup>1</sup> / <sub>4</sub>	870	18 <sup>7</sup> / <sub>8</sub>	479	9 <sup>1</sup> / <sub>16</sub>	230	8 <sup>3</sup> / <sub>4</sub>	222	84



Strainer Dimension

SIZE	WEIGHT				
	M		N		
in.	mm	in.	mm	lbs.	kgs.
2 <sup>1</sup> / <sub>2</sub>	65	10	254	6 <sup>1</sup> / <sub>2</sub>	13
3	80	10 <sup>1</sup> / <sub>8</sub>	267	7	15

## Characteristic Curves



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.