

## For Non-Health Hazard Applications

Job Name \_\_\_\_\_  
 Job Location \_\_\_\_\_  
 Engineer \_\_\_\_\_  
 Approval \_\_\_\_\_

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

# Series 719

## Double Check Valve Assemblies

**Sizes: ½" – 2" (15 – 50mm)**

Series 719 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.

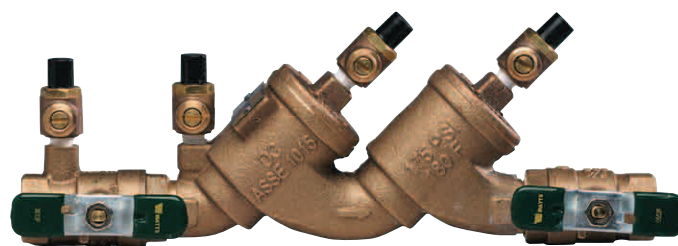
This series may be used in only those cross-connections identified by local inspection authorities as non-health hazard applications. Check with local authority having jurisdiction regarding vertical orientation, frequency of testing or other installation requirements. Series 719 meets the requirements of ASSE Std. 1015 and AWWA Std. C510.

### Features

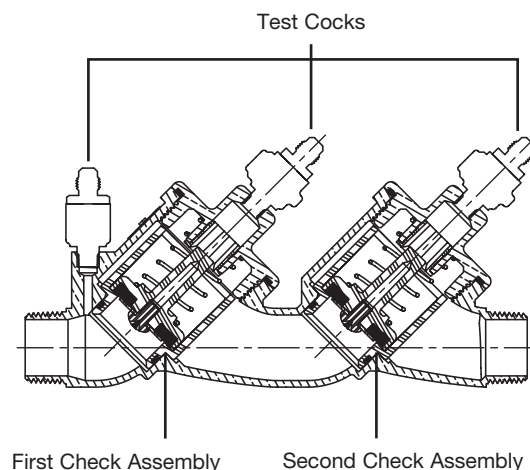
- Manufactured from bronze alloy
- Separate access, top entry check valve design
- Reversible seat disc rubber, extends check valve life
- Chloramine resistant elastomers
- Replaceable seats and seat discs
- Compact design
- Top mounted screwdriver slotted ball valve test cocks
- Low pressure drop
- ½" – 1" (15 – 25mm) have Tee handles
- No special tools required for servicing
- Plastic on plastic check guiding reduces potential binding due to mineral deposits

### Specifications

Series 719 Double Check Valve Assembly shall be installed at each noted location. Provide assembly with integral shutoff valves that conform to ASSE 1015 and AWWA C510. The assembly shall have top entry bronze covered access points for each check assembly, screw driver slotted test cocks and require the use of no special tools for servicing. All wetted rubber parts shall be manufactured from silicone or chloramine resistant EPDM rubber. All valve seats and seat discs shall be replaceable. Seat discs shall be reversible to extend check valve life. Check valve guiding shall be plastic to plastic. The assembly shall be a Watts Series 719.



719QT



**Now Available**  
**WattsBox Insulated Enclosures.**

For more information, refer to literature ES-WB.

### NOTICE

Inquire with governing authorities for local installation requirements

## Available Models

### Suffix:

- S - bronze strainer
- LF - without shutoff valves
- SH - stainless steel ball valve handles
- HC - 2½" (65mm) inlet/outlet fire hydrant fittings for 2" (50mm) valve
- QT - quarter-turn ball valves
- C&T - testcock caps and tethers
- AQT - street elbows with quarter-turn ball valves

### Prefix:

- U - union connections

## Pressure-Temperature

Operating Pressure: 175psi (12.1 bar)

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

## Materials

- Body: Bronze
- Elastomers: Chloramine resistant silicone and EPDM
- Check Seats: Engineered Plastic
- Disc Holders: Engineered Plastic

## Standards

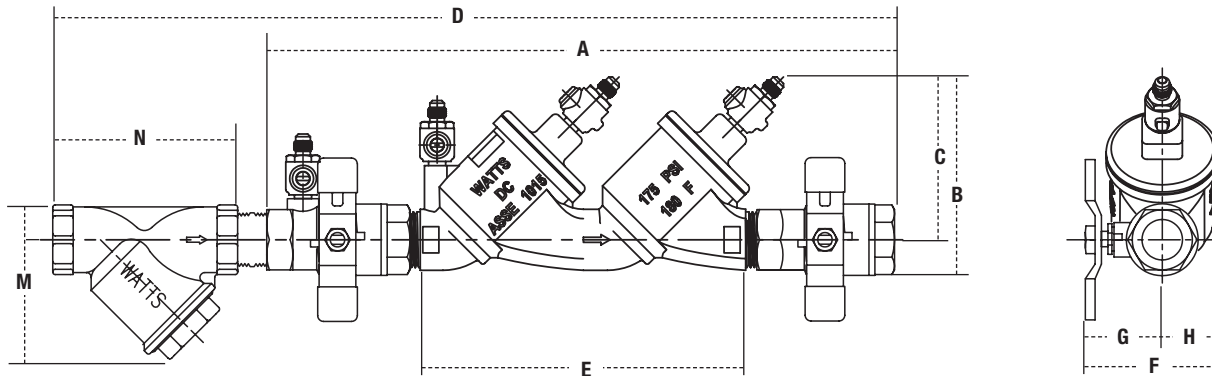
AWWA Std C510 compliant

## Approvals



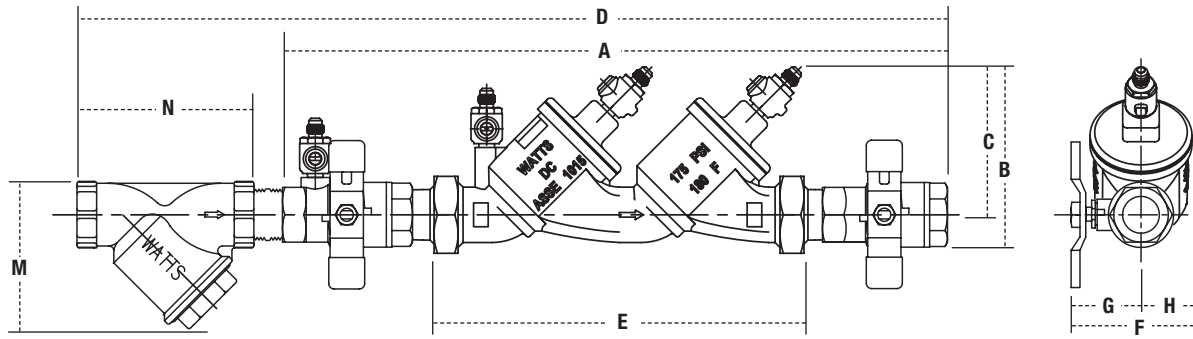
Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California

## Dimensions/Weights



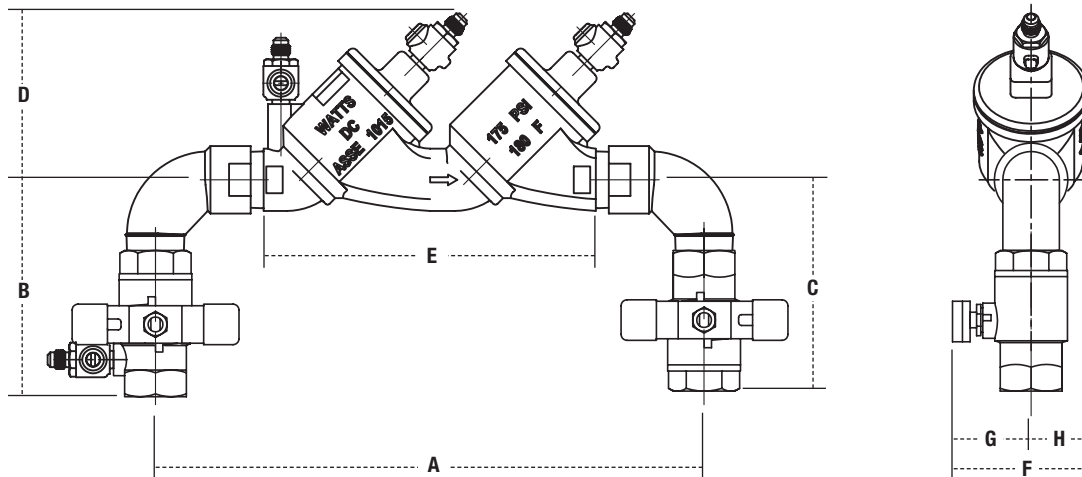
### 719QT, 719QT-S

| SIZE (DN) |    | DIMENSIONS                       |     |                                 |     |                                 |     | STRAINER DIMENSIONS              |     |                                  |     |                                | WEIGHT |                                 |    |                                 |    |                                |    |                                 |     |       |      |         |      |
|-----------|----|----------------------------------|-----|---------------------------------|-----|---------------------------------|-----|----------------------------------|-----|----------------------------------|-----|--------------------------------|--------|---------------------------------|----|---------------------------------|----|--------------------------------|----|---------------------------------|-----|-------|------|---------|------|
| in.       | mm | A                                |     | B                               |     | C                               |     | D                                |     | E(LF)                            |     | F                              |        | G                               |    | H                               |    | M                              |    | N                               |     | 719QT |      | 719QT-S |      |
|           |    | in.                              | mm  | in.                             | mm  | in.                             | mm  | in.                              | mm  | in.                              | mm  | in.                            | mm     | in.                             | mm | in.                             | mm | in.                            | mm | in.                             | mm  | lbs.  | kgs. | lbs.    | kgs. |
| ½         | 15 | 9 <sup>9</sup> / <sub>16</sub>   | 242 | 3 <sup>11</sup> / <sub>16</sub> | 94  | 2 <sup>15</sup> / <sub>16</sub> | 73  | 12 <sup>9</sup> / <sub>16</sub>  | 318 | 5 <sup>13</sup> / <sub>16</sub>  | 147 | 2 <sup>7</sup> / <sub>16</sub> | 62     | 1 <sup>11</sup> / <sub>16</sub> | 43 | ¾                               | 19 | 1 <sup>3</sup> / <sub>8</sub>  | 35 | 2 <sup>3</sup> / <sub>4</sub>   | 70  | 2.8   | 1.3  | 3.8     | 1.7  |
| ¾         | 20 | 12 <sup>1</sup> / <sub>8</sub>   | 307 | 4 <sup>1</sup> / <sub>4</sub>   | 108 | 3 <sup>1</sup> / <sub>2</sub>   | 88  | 15 <sup>7</sup> / <sub>16</sub>  | 393 | 7 <sup>11</sup> / <sub>16</sub>  | 195 | 3 <sup>1</sup> / <sub>8</sub>  | 79     | 2 <sup>1</sup> / <sub>16</sub>  | 52 | 1 <sup>1</sup> / <sub>16</sub>  | 27 | 1 <sup>5</sup> / <sub>8</sub>  | 41 | 3 <sup>3</sup> / <sub>16</sub>  | 81  | 4.7   | 2.1  | 6.4     | 2.9  |
| 1         | 25 | 14 <sup>13</sup> / <sub>16</sub> | 376 | 4 <sup>9</sup> / <sub>16</sub>  | 116 | 3 <sup>7</sup> / <sub>8</sub>   | 98  | 19 <sup>1</sup> / <sub>2</sub>   | 495 | 9 <sup>5</sup> / <sub>8</sub>    | 244 | 3 <sup>3</sup> / <sub>4</sub>  | 95     | 2 <sup>7</sup> / <sub>16</sub>  | 62 | 1 <sup>5</sup> / <sub>16</sub>  | 33 | 2 <sup>1</sup> / <sub>8</sub>  | 54 | 3 <sup>3</sup> / <sub>4</sub>   | 95  | 7.4   | 3.4  | 9.4     | 4.3  |
| 1¼        | 32 | 18 <sup>15</sup> / <sub>16</sub> | 480 | 6 <sup>1</sup> / <sub>8</sub>   | 156 | 5 <sup>1</sup> / <sub>8</sub>   | 129 | 24 <sup>1</sup> / <sub>16</sub>  | 610 | 11 <sup>11</sup> / <sub>16</sub> | 297 | 4 <sup>1</sup> / <sub>4</sub>  | 108    | 2 <sup>5</sup> / <sub>8</sub>   | 67 | 1 <sup>5</sup> / <sub>8</sub>   | 41 | 2 <sup>1</sup> / <sub>2</sub>  | 64 | 4 <sup>7</sup> / <sub>16</sub>  | 113 | 14.0  | 6.3  | 18.0    | 8.1  |
| 1½        | 40 | 18 <sup>15</sup> / <sub>16</sub> | 480 | 6 <sup>1</sup> / <sub>8</sub>   | 156 | 5 <sup>1</sup> / <sub>8</sub>   | 129 | 25 <sup>1</sup> / <sub>4</sub>   | 640 | 11 <sup>11</sup> / <sub>16</sub> | 297 | 4 <sup>3</sup> / <sub>4</sub>  | 121    | 3 <sup>1</sup> / <sub>8</sub>   | 79 | 1 <sup>5</sup> / <sub>8</sub>   | 41 | 3                              | 76 | 4 <sup>7</sup> / <sub>8</sub>   | 124 | 16.1  | 7.3  | 19.9    | 9.0  |
| 2         | 50 | 21 <sup>3</sup> / <sub>16</sub>  | 538 | 7 <sup>1</sup> / <sub>16</sub>  | 179 | 5 <sup>5</sup> / <sub>8</sub>   | 142 | 28 <sup>15</sup> / <sub>16</sub> | 735 | 13 <sup>3</sup> / <sub>8</sub>   | 340 | 5 <sup>3</sup> / <sub>8</sub>  | 137    | 3 <sup>7</sup> / <sub>16</sub>  | 87 | 1 <sup>15</sup> / <sub>16</sub> | 49 | 3 <sup>9</sup> / <sub>16</sub> | 90 | 5 <sup>15</sup> / <sub>16</sub> | 151 | 25.7  | 11.6 | 33.4    | 15.2 |



### U719QT, U719QT-S

| SIZE (DN) |    | DIMENSIONS                       |     |                                |     |                               |     |                                  |     |                                 |     | STRAINER DIMENSIONS           |     | WEIGHT                          |    |                                 |    |                                |    |                                 |     |        |      |          |      |      |      |
|-----------|----|----------------------------------|-----|--------------------------------|-----|-------------------------------|-----|----------------------------------|-----|---------------------------------|-----|-------------------------------|-----|---------------------------------|----|---------------------------------|----|--------------------------------|----|---------------------------------|-----|--------|------|----------|------|------|------|
| in.       | mm | A                                |     | B                              |     | C                             |     | D                                |     | E (LF)                          |     | F                             |     | G                               |    | H                               |    | M                              |    | N                               |     | U719QT |      | U719QT-S |      |      |      |
|           |    | in.                              | mm  | in.                            | mm  | in.                           | mm  | in.                              | mm  | in.                             | mm  | in.                           | mm  | in.                             | mm | in.                             | mm | in.                            | mm | in.                             | mm  | in.    | mm   | lbs.     | kgs. | lbs. | kgs. |
| 1/2       | 15 | 15 <sup>13</sup> / <sub>16</sub> | 402 | 4 <sup>9</sup> / <sub>16</sub> | 116 | 3 <sup>7</sup> / <sub>8</sub> | 98  | 18 <sup>13</sup> / <sub>16</sub> | 478 | 11 <sup>3</sup> / <sub>8</sub>  | 289 | 3                             | 76  | 11 <sup>1</sup> / <sub>16</sub> | 43 | 1 <sup>5</sup> / <sub>16</sub>  | 33 | 1 <sup>3</sup> / <sub>8</sub>  | 35 | 2 <sup>3</sup> / <sub>4</sub>   | 70  | 7.4    | 3.4  | 8.4      | 3.8  |      |      |
| 3/4       | 20 | 16 <sup>1</sup> / <sub>4</sub>   | 412 | 4 <sup>9</sup> / <sub>16</sub> | 116 | 3 <sup>7</sup> / <sub>8</sub> | 98  | 19 <sup>5</sup> / <sub>8</sub>   | 498 | 11 <sup>5</sup> / <sub>16</sub> | 287 | 3 <sup>3</sup> / <sub>8</sub> | 86  | 2 <sup>1</sup> / <sub>16</sub>  | 52 | 1 <sup>5</sup> / <sub>16</sub>  | 33 | 1 <sup>5</sup> / <sub>8</sub>  | 41 | 3 <sup>3</sup> / <sub>16</sub>  | 81  | 7.9    | 3.6  | 9.7      | 4.4  |      |      |
| 1         | 25 | 17 <sup>5</sup> / <sub>16</sub>  | 439 | 4 <sup>9</sup> / <sub>16</sub> | 116 | 3 <sup>7</sup> / <sub>8</sub> | 98  | 22                               | 558 | 11 <sup>3</sup> / <sub>4</sub>  | 297 | 3 <sup>3</sup> / <sub>4</sub> | 95  | 2 <sup>7</sup> / <sub>16</sub>  | 62 | 1 <sup>5</sup> / <sub>16</sub>  | 33 | 2 <sup>1</sup> / <sub>8</sub>  | 54 | 3 <sup>3</sup> / <sub>4</sub>   | 95  | 8.9    | 4.0  | 10.9     | 5.0  |      |      |
| 1 1/4     | 32 | 20 <sup>7</sup> / <sub>8</sub>   | 530 | 6 <sup>1</sup> / <sub>8</sub>  | 156 | 5 <sup>1</sup> / <sub>8</sub> | 129 | 26                               | 660 | 15 <sup>3</sup> / <sub>8</sub>  | 390 | 4 <sup>1</sup> / <sub>4</sub> | 108 | 2 <sup>5</sup> / <sub>8</sub>   | 67 | 1 <sup>5</sup> / <sub>8</sub>   | 41 | 2 <sup>1</sup> / <sub>2</sub>  | 64 | 4 <sup>7</sup> / <sub>16</sub>  | 113 | 17.6   | 8.0  | 21.6     | 9.8  |      |      |
| 1 1/2     | 40 | 21 <sup>9</sup> / <sub>16</sub>  | 547 | 6 <sup>1</sup> / <sub>8</sub>  | 156 | 5 <sup>1</sup> / <sub>8</sub> | 129 | 27 <sup>7</sup> / <sub>8</sub>   | 708 | 15 <sup>3</sup> / <sub>8</sub>  | 390 | 4 <sup>3</sup> / <sub>4</sub> | 121 | 3 <sup>1</sup> / <sub>8</sub>   | 79 | 1 <sup>5</sup> / <sub>8</sub>   | 41 | 3                              | 76 | 4 <sup>7</sup> / <sub>8</sub>   | 124 | 19.8   | 9.0  | 23.5     | 10.7 |      |      |
| 2         | 50 | 24 <sup>7</sup> / <sub>16</sub>  | 621 | 7 <sup>1</sup> / <sub>16</sub> | 179 | 5 <sup>5</sup> / <sub>8</sub> | 142 | 32 <sup>3</sup> / <sub>16</sub>  | 817 | 16 <sup>3</sup> / <sub>4</sub>  | 425 | 5 <sup>3</sup> / <sub>8</sub> | 137 | 3 <sup>7</sup> / <sub>16</sub>  | 87 | 1 <sup>15</sup> / <sub>16</sub> | 49 | 3 <sup>9</sup> / <sub>16</sub> | 90 | 5 <sup>15</sup> / <sub>16</sub> | 151 | 30.0   | 13.6 | 37.7     | 17.1 |      |      |

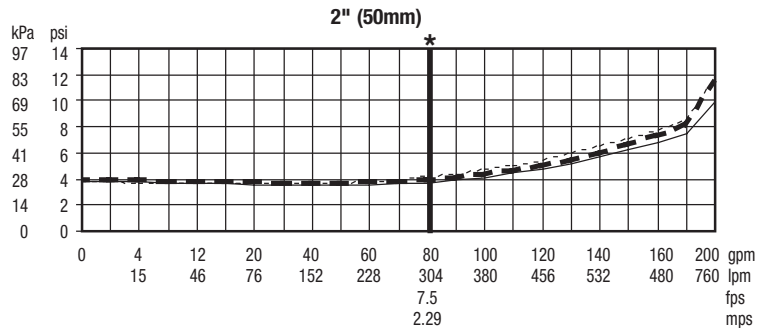
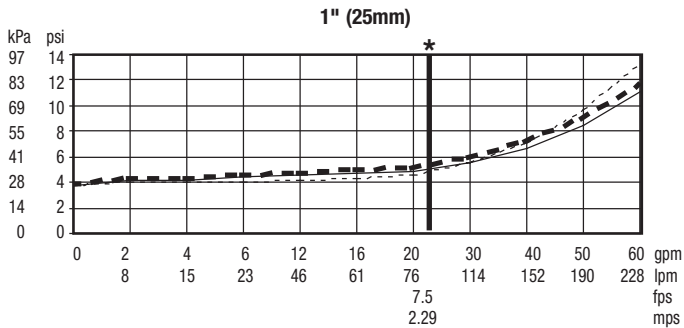
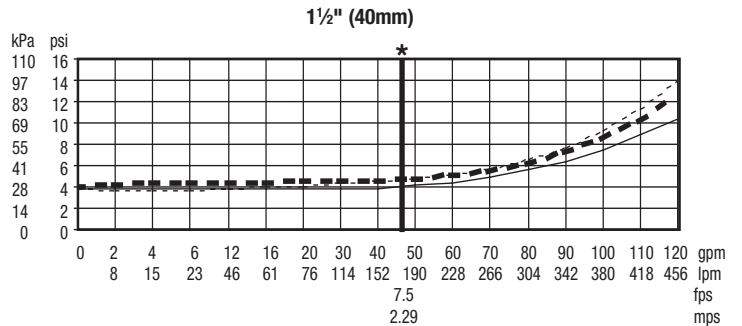
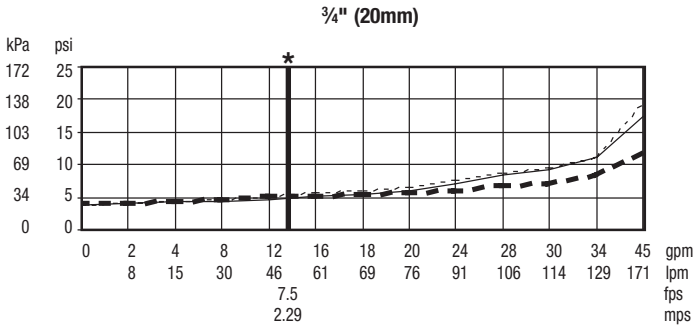
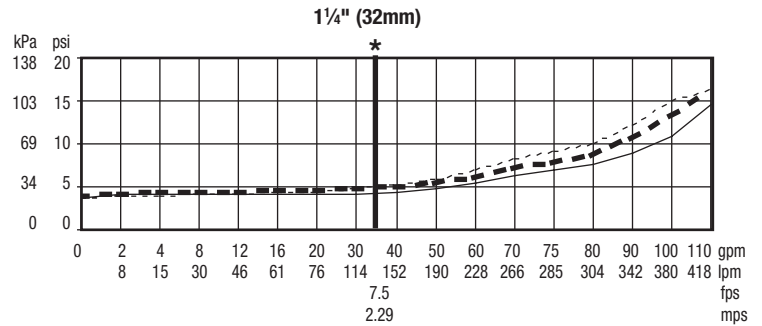
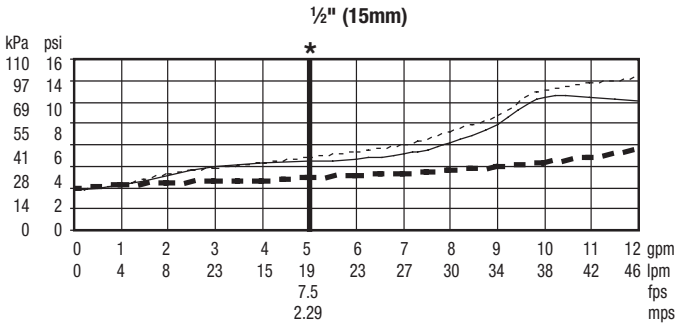


### 719AQT

| SIZE (DN) |    | DIMENSIONS                       |     |                                 |     |                                 |     |                                 |     |                                  |     | WEIGHT                         |     |                                 |    |                                 |    |      |      |
|-----------|----|----------------------------------|-----|---------------------------------|-----|---------------------------------|-----|---------------------------------|-----|----------------------------------|-----|--------------------------------|-----|---------------------------------|----|---------------------------------|----|------|------|
| in.       | mm | A                                |     | B                               |     | C                               |     | D                               |     | E (LF)                           |     | F                              |     | G                               |    | H                               |    |      |      |
|           |    | in.                              | mm  | in.                             | mm  | in.                             | mm  | in.                             | mm  | in.                              | mm  | in.                            | mm  | in.                             | mm | in.                             | mm | lbs. | kgs. |
| 1/2       | 15 | 7 <sup>7</sup> / <sub>8</sub>    | 200 | 3 <sup>5</sup> / <sub>16</sub>  | 84  | 2 <sup>15</sup> / <sub>16</sub> | 73  | 2 <sup>15</sup> / <sub>16</sub> | 73  | 5 <sup>13</sup> / <sub>16</sub>  | 147 | 2 <sup>7</sup> / <sub>16</sub> | 62  | 11 <sup>1</sup> / <sub>16</sub> | 43 | 3/4                             | 19 | 3.4  | 1.5  |
| 3/4       | 20 | 13 <sup>7</sup> / <sub>16</sub>  | 340 | 4 <sup>13</sup> / <sub>16</sub> | 121 | 4 <sup>9</sup> / <sub>16</sub>  | 116 | 3 <sup>1</sup> / <sub>2</sub>   | 98  | 7 <sup>11</sup> / <sub>16</sub>  | 195 | 3 <sup>1</sup> / <sub>8</sub>  | 79  | 2 <sup>1</sup> / <sub>16</sub>  | 52 | 1 <sup>1</sup> / <sub>16</sub>  | 27 | 5.7  | 2.6  |
| 1         | 25 | 12 <sup>11</sup> / <sub>16</sub> | 322 | 5                               | 127 | 4 <sup>3</sup> / <sub>8</sub>   | 110 | 3 <sup>7</sup> / <sub>8</sub>   | 98  | 9 <sup>5</sup> / <sub>8</sub>    | 244 | 3 <sup>3</sup> / <sub>4</sub>  | 95  | 2 <sup>7</sup> / <sub>16</sub>  | 62 | 1 <sup>5</sup> / <sub>16</sub>  | 33 | 8.9  | 4.0  |
| 1 1/4     | 32 | 15 <sup>3</sup> / <sub>16</sub>  | 386 | 5 <sup>11</sup> / <sub>16</sub> | 144 | 5 <sup>11</sup> / <sub>16</sub> | 144 | 5 <sup>1</sup> / <sub>8</sub>   | 129 | 11 <sup>11</sup> / <sub>16</sub> | 297 | 4 <sup>1</sup> / <sub>4</sub>  | 108 | 2 <sup>5</sup> / <sub>8</sub>   | 67 | 1 <sup>5</sup> / <sub>8</sub>   | 41 | 15.7 | 7.1  |
| 1 1/2     | 40 | 15 <sup>13</sup> / <sub>16</sub> | 401 | 6 <sup>3</sup> / <sub>16</sub>  | 156 | 6 <sup>3</sup> / <sub>16</sub>  | 156 | 5 <sup>1</sup> / <sub>8</sub>   | 129 | 11 <sup>11</sup> / <sub>16</sub> | 297 | 4 <sup>3</sup> / <sub>4</sub>  | 121 | 3 <sup>1</sup> / <sub>8</sub>   | 79 | 1 <sup>5</sup> / <sub>8</sub>   | 41 | 18.4 | 8.3  |
| 2         | 50 | 17 <sup>3</sup> / <sub>8</sub>   | 441 | 6 <sup>5</sup> / <sub>8</sub>   | 168 | 6 <sup>3</sup> / <sub>16</sub>  | 167 | 5 <sup>5</sup> / <sub>8</sub>   | 142 | 13 <sup>3</sup> / <sub>8</sub>   | 340 | 5 <sup>3</sup> / <sub>8</sub>  | 137 | 3 <sup>7</sup> / <sub>16</sub>  | 87 | 1 <sup>15</sup> / <sub>16</sub> | 49 | 29.0 | 13.1 |

# Capacities

\* Typical maximum flow rate (7.5 feet/sec.)



A Watts Water Technologies Company



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