

# Series 773

## Double Check Valve Backflow Preventer

Sizes 4", 6" (100, 150mm)

Series 773 Double Check Valve Backflow Preventer is designed to prevent the reverse flow in water lines and to prevent polluted water from entering into the potable water system. This series can be applied, where approved by the local authority having jurisdiction, on low hazard installations. No. 773 Series features a modular check design concept to facilitate easy maintenance. Check with local jurisdictional authority as to installation requirements.

### FEATURES

- Replaceable bronze seats
- Maximum flow at low pressure drop
- Design simplicity for easy maintenance
- No Special Tools Required for Servicing
- Captured spring assemblies for safety
- Grooved ends available
- Compact construction reduces lay length by as much as 70%
- Field proven check components for reliability and parts inventory reduction
- Lower installed cost in outdoor installations due to elimination of two elbows, two valve supports, use of shorter spools and smaller enclosures.

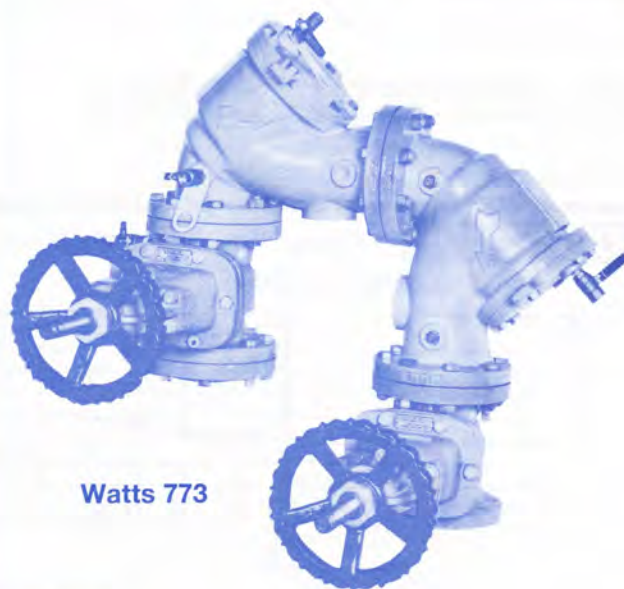
### AVAILABLE MODELS

Suffix:

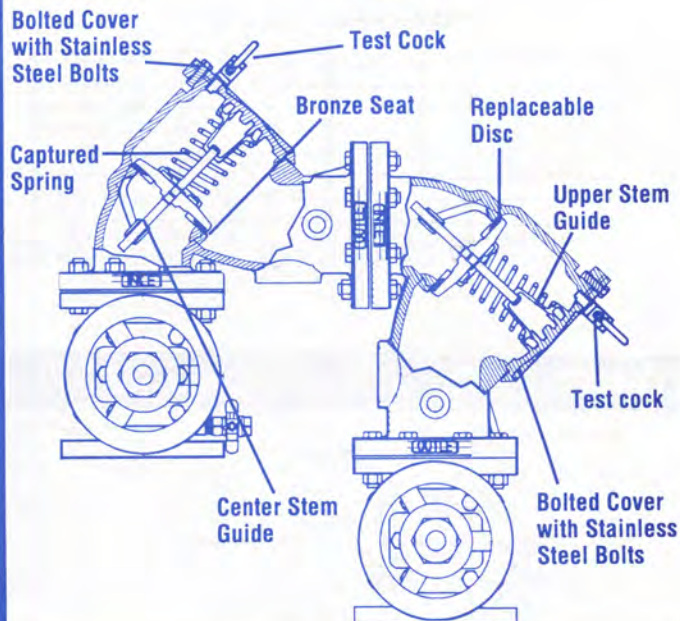
- NRS - with non-rising stem resilient seated gate valves
- OSY - with outside stem & yoke resilient seated gate valves
- G - with grooved ends (NRS or OS&Y)

### SPECIFICATIONS

A double check valve backflow preventer shall be installed at each cross-connection to prevent the backflow of polluted water into the potable water supply. The cross-connections shall be determined by the local inspection authority for use where a high hazard situation does not exist. The assembly shall consist of two positive sating check valves located between two resilient seated shutoff valves. The check valves shall be of a poppet design and guided by a bearing in the valve seat and an integral guide in the check module. The check valve seats shall be securely held in place by retaining wires and shall be removable without the use of special tools. The check discs shall be circular in design and shall be replaceable as an individual part. Check valve construction shall include edge protection to prevent over compression of the rubber disc due to thermal expansion or backpressure. The main valve body shall be internally/externally coated with an FDA approved fusion bonded epoxy coating. The assembly shall include two resilient shutoff valves and four ball type test cocks. The assembly shall be a Watts Regulator Series 773.



Watts 773



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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.

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## MATERIALS

Epoxy coated FDA approved cast iron check valve bodies with bronze seats.

## PRESSURE - TEMPERATURE

Suitable for supply pressures up to 175 psi (12.1 bars) and water temperature to 110°F (43°C) continuous, 140°F (60°C) intermittent.

## STANDARDS

ASSE 1015

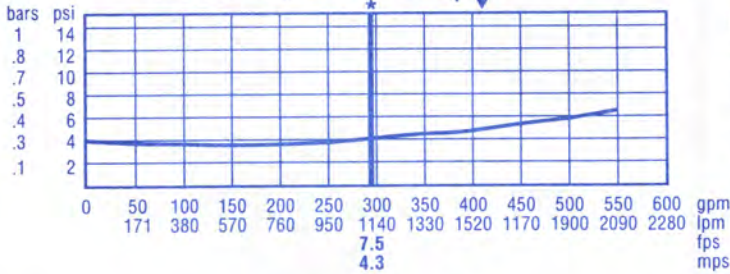
## APPROVALS

Consult factory.

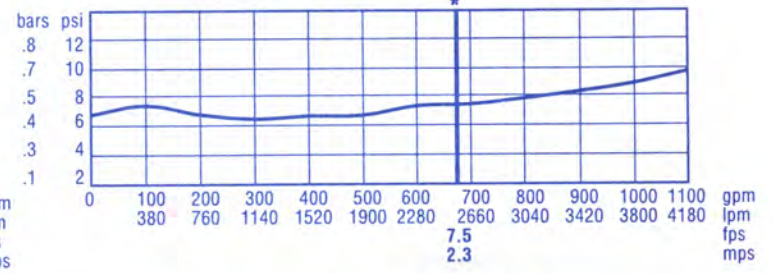
## CAPACITY

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

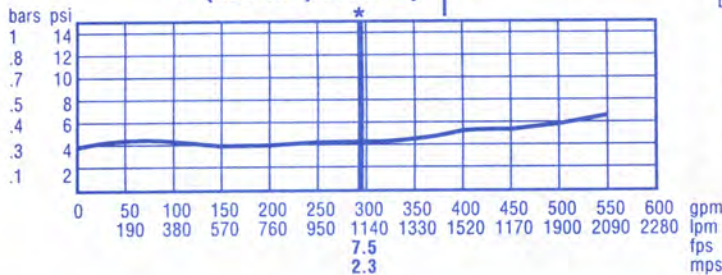
4" (100mm) Flow Down



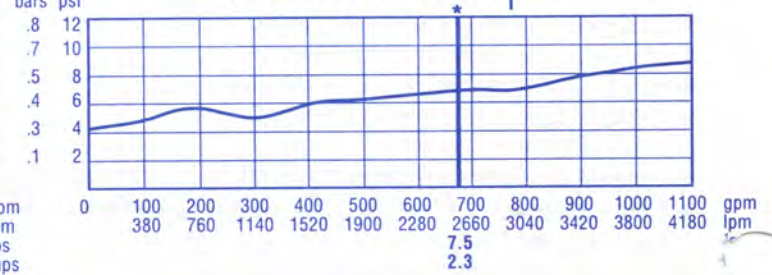
6" (150 mm) Flow Down



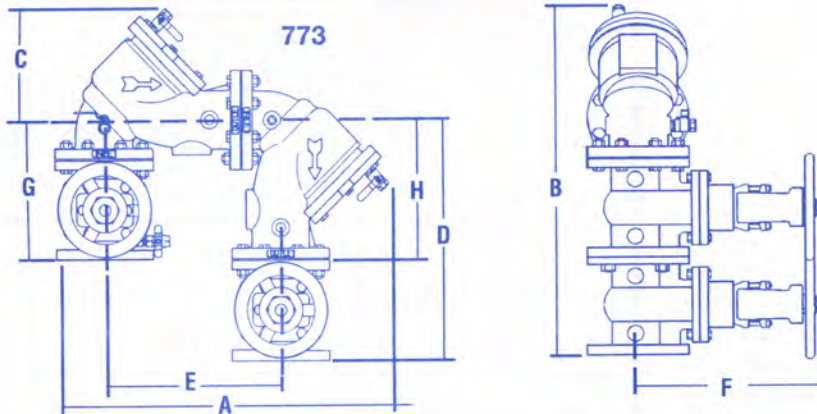
4" (100mm) Flow Up



6" (150 mm) Flow Up



## DIMENSIONS - WEIGHT (approximate)



GROOVED END dimensions are the same as below.

| Model   | Size<br>inches / mm | A<br>inches / mm | B<br>inches / mm | C<br>inches / mm | D<br>inches / mm | E<br>inches / mm | F (open)<br>inches / mm | F (close)<br>inches / mm | G<br>inches / mm | H<br>inches / mm | Weight<br>lbs. / kg. |
|---------|---------------------|------------------|------------------|------------------|------------------|------------------|-------------------------|--------------------------|------------------|------------------|----------------------|
| 773-LF  | 4 / 100             | 30 3/4 / 781     | —                | 10 / 250         | —                | 16 1/4 / 413     | —                       | —                        | —                | 12 1/2 / 318     | 209 / 95             |
| 773-OSY | 4 / 100             | 32 1/4 / 819     | 31 1/16 / 805    | 10 / 250         | 21 5/8 / 549     | 16 1/4 / 413     | 23 3/4 / 603            | 19 1/4 / 489             | 12 3/4 / 384     | —                | 300 / 136            |
| 773-NRS | 4 / 100             | 32 1/4 / 819     | 31 1/16 / 805    | 10 / 250         | 21 5/8 / 549     | 16 1/4 / 413     | 15 1/4 / 387            | 15 1/4 / 387             | 12 3/4 / 384     | —                | 285 / 129            |
| 773-LF  | 6 / 150             | 38 5/16 / 979    | —                | 12 15/16 / 327   | —                | 20 / 508         | —                       | —                        | —                | 15 5/16 / 389    | 315 / 143            |
| 773-OSY | 6 / 150             | 38 5/16 / 979    | 38 7/8 / 987     | 12 15/16 / 327   | 25 15/16 / 659   | 20 / 508         | 32 1/2 / 826            | 27 / 686                 | 15 5/16 / 389    | —                | 375 / 170            |
| 773-NRS | 6 / 150             | 38 5/16 / 979    | 38 7/8 / 987     | 12 15/16 / 327   | 25 15/16 / 659   | 20 / 508         | 20 / 508                | 20 / 508                 | 15 5/16 / 389    | —                | 360 / 163            |

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ES-773 9711

Printed in U.S.A.

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