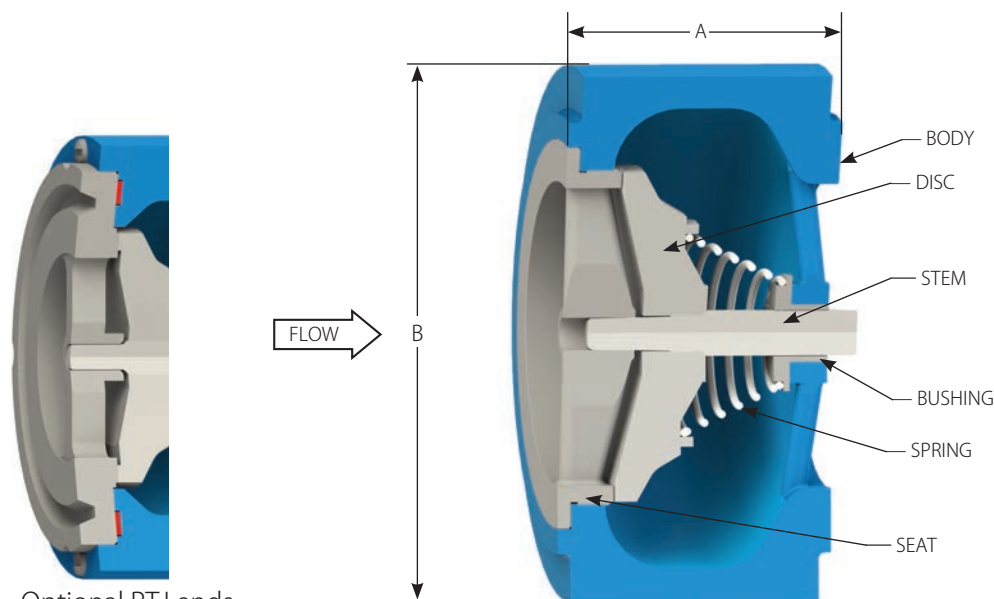


The **DFT® Model WLC Wafer Style Check Valve** is a lightweight, spring-assisted, center-guided, non-slam check valve that provides reliable, low-maintenance service for a wide range of fluids and pressure/ temperature combinations. The joint between the seat ring and body is sealed by the flange gasket upon installation preventing any leakage through the joint when the valve is in service.

### FEATURES:

- Wafer design
- Standard body material:
  - A216 Grade WCB carbon steel
  - A351 CF8M stainless steel
- Optional body materials:
  - Alloy 20
  - Hastelloy®
  - Inconel® 625
  - Duplex SS
  - Titanium
- Center-guided/Dual-guided stem
- Horizontal or vertical installation
- Protected spring
- Spring-assisted silent closing
- ASME Class 150 to 1500
  - 1" to 10" Line Size
  - 316 SS trim
  - Ends:
    - Wafer RF
    - Wafer RTJ
  - MSS-SP 61 seat leakage
  - MSS 126 Face-to-Face dimension:
    - Class 150 & 300 RF
  - API 594 Face-to-Face dimension:
    - Class 600 RF
    - Class 900 & 1500 RF
- Axial flow
- Nozzle style
- Lightweight
- Options:
  - Inconel® X-750 spring
  - Soft seat (for bubble-tight shutoff)
  - Custom sizing - low flow
  - Stellite® trim
  - NACE (page 47)
  - Severe Service
  - Tapped lug design available



Optional RTJ ends

Consult factory for more details.

Standard RF ends

### MATERIALS OF CONSTRUCTION

| COMPONENT          | CARBON STEEL BODY  | STAINLESS STEEL BODY |
|--------------------|--------------------|----------------------|
| Body               | A216 Grade WCB     | A351 CF8M            |
| Disc/Stem Assembly | A351 CF8M/A479 316 | A351 CF8M/A479 316   |
| Seat               | A351 CF8M          | A351 CF8M            |
| Spring             | A313 316           | A313 316             |
| Bushing            | A479 316           | A479 316             |

### SOFT SEAT - Maximum operating temperatures of materials

| MATERIALS  | BUNA-N     | EPDM       | VITON® & TFE-Encapsulated VITON® | ZELON®    |
|------------|------------|------------|----------------------------------|-----------|
| TEMP. (°F) | -70 to 250 | -75 to 300 | -40 to 400                       | 37 to 470 |

Consult pages 48 and 49 for Pressure/Temperature ratings and soft seat materials.

| Class    | 150 RF | 300 RF | 600 RF | 900 RF | 1500 RF | 1500 RTJ | 2500 RF | 2500 RTJ |
|----------|--------|--------|--------|--------|---------|----------|---------|----------|
| 1" *     | A      | 2      | 2      | 2.38   | 2.38    | 2.38     |         | 2.38     |
|          | B      | 2.88   | 2.88   | 2.88   | 3.13    | 3.13     | 3.13    | 3.25     |
|          | Weight | 2      | 2      | 2.50   | 4       | 4        | 4       | 4.75     |
|          | Cv     | 19     | 19     | 19     | 19      | 19       | 19      | 19       |
|          | CP     | 0.36   | 0.36   | 0.36   | 0.44    | 0.44     | 0.44    | 0.44     |
| 1 1/2" * | A      | 2.50   | 2.50   | 2.88   | 2.88    | 2.88     | 2.88    | **       |
|          | B      | 3.75   | 3.75   | 3.75   | 3.88    | 3.88     | 3.88    |          |
|          | Weight | 4      | 4      | 6.5    | 8       | 8        | 7       |          |
|          | Cv     | 36     | 36     | 23     | 23      | 23       | 23      |          |
|          | CP     | 0.17   | 0.17   | 0.44   | 0.54    | 0.54     | 0.54    |          |
| 2" *     | A      | 2.63   | 2.63   | 2.38   | 2.75    | 2.75     | 3.13    | 2.81     |
|          | B      | 4.38   | 4.38   | 4.38   | 5.50    | 5.50     | 5.50    | 5.75     |
|          | Weight | 4      | 4      | 5      | 14      | 14       | 14      | 17       |
|          | Cv     | 57     | 57     | 53     | 48      | 48       | 48      | 35       |
|          | CP     | 0.24   | 0.24   | 0.26   | 0.24    | 0.24     | 0.24    | 0.97     |
| 2 1/2" * | A      | 2.88   | 2.88   |        | 3.63    | 3.63     | 3.63    |          |
|          | B      | 5.13   | 5.13   |        | 6.40    | 6.40     | 6.40    |          |
|          | Weight | 10     | 10     |        | 20      | 20       | 20      |          |
|          | Cv     | 95     | 95     |        | 70      | 70       | 70      |          |
|          | CP     | 0.37   | 0.37   |        | 0.18    | 0.18     | 0.18    |          |
| 3" *     | A      | 3.13   | 3.13   | 2.88   | 3.25    | 3.25     | 3.25    | 3.38     |
|          | B      | 5.75   | 5.75   | 5.75   | 6.75    | 6.75     | 6.75    | 7.50     |
|          | Weight | 12     | 12     | 11     | 21      | 21       | 21      | 33       |
|          | Cv     | 140    | 140    | 133    | 113     | 113      | 113     | 80       |
|          | CP     | 0.19   | 0.19   | 0.26   | 0.19    | 0.19     | 0.19    | 0.56     |
| 4" *     | A      | 4      | 4      | 3.13   | 4       | 4        | 4.13    | 4.125    |
|          | B      | 7.09   | 7.09   | 7.50   | 8.19    | 8.19     | 8.25    | 9.13     |
|          | Weight | 20     | 20     | 21     | 38      | 38       | 38      | 113      |
|          | Cv     | 265    | 265    | 234    | 211     | 211      | 211     | 130      |
|          | CP     | 0.19   | 0.19   | 0.49   | 0.46    | 0.46     | 0.46    | 0.69     |
| 5" *     | A      | 4.63   | 4.63   |        | 6.25    | 6.25     |         |          |
|          | B      | 8.50   | 8.50   |        | 11.25   | 11.25    |         |          |
|          | Weight | 35     | 35     |        | 100     | 100      |         |          |
|          | Cv     | 360    | 360    |        | 370     | 370      |         |          |
|          | CP     | 0.29   | 0.29   |        | 0.58    | 0.58     |         |          |
| 6" *     | A      | 5.50   | 5.50   | 5.38   | 6.25    | 6.25     | 6.25    | 5.88     |
|          | B      | 9.81   | 9.81   | 10.38  | 11.25   | 11.25    | 11.25   | 19       |
|          | Weight | 41     | 41     | 68     | 100     | 100      | 100     | 350      |
|          | Cv     | 506    | 506    | 441    | 370     | 370      | 370     | 150      |
|          | CP     | 0.45   | 0.45   | 0.66   | 0.58    | 0.58     | 0.58    | 0.62     |
| 8" *     | A      | 6.50   | 6.50   | 6.50   | 8       | 8.13     | 8.12    |          |
|          | B      | 12.13  | 12.13  | 12.63  | 14.05   | 13.81    | 13.86   |          |
|          | Weight | 86     | 86     | 134    | 237     | 244      | 237     |          |
|          | Cv     | 860    | 860    | 780    | 620     | 620      | 620     |          |
|          | CP     | 0.56   | 0.56   | 0.56   | 0.66    | 0.66     | 0.66    |          |
| 10"      | A      | 8.25   |        |        | 9.50    | 9.75     | 9.75    |          |
|          | B      | 17.62  |        |        | 17.06   | 17.06    | 17.06   |          |
|          | Weight | 138    |        |        | 430     | 430      | 426     |          |
|          | Cv     | 1355   |        |        | 755     | 755      | 755     |          |
|          | CP     | 0.45   |        |        | 0.61    | 0.61     | 0.61    |          |

\* Sizes 1" to 8" are Dual Rated Class 150 / 300

\*\* Consult DFT factory

Consult DFT for 2500 RF availability.

All dimensions are in inches. Weights are in pounds. For metric measurements, visit [www.dft-valves.com](http://www.dft-valves.com). CP: Cracking Pressure (psig)