

**SPECIFICATIONS**

- PSI/Temperature Rating:** 600 WOG (400 PSI / 250°F)
- Flow Elements<sup>1</sup>:** Venturi: Brass  
Disc: Ceramic
- Body Material:** Forged Brass ASTM B283-06 (Optional Certified Lead Free Brass)
- Seal:** EPDM O-ring
- End Connections:** FNPT or SWT (Optional Union End Inlet for FNPT valve)
- Body Tappings:** P/T Test Valve
- Adjustment:** Pin with graduated marking on housings with a memory stop
- Assembly:** Valve comes fully assembled
- Installation:** Straight sections of piping upstream and downstream of the QuickDisc aren't necessary for proper operation

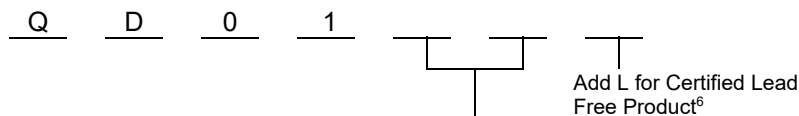
**FLOW RATES (+/-3%)**

| OUTLET SIZE | MODEL NO. | FLOW GPM <sup>(2)</sup> AT 4 FT/SEC | Cv <sup>(3)</sup> | GPM RANGE FOR 5"-100" W.C. ΔP (SET W/100" GAUGE) | GPM RANGE FOR 5"-300" W.C. ΔP (SET W/300" GAUGE) |
|-------------|-----------|-------------------------------------|-------------------|--|--|
| 1/2"        | QD0 E     | 3.8                                 | 6.5               | 0.3 – 12.4                                       | 0.3 – 22.0                                       |
| 3/4"        | QD0 F     | 6.7                                 |                   |  |  |

**DIMENSIONS & WEIGHTS (NOMINAL)**

| SIZE       | A –LENGTH        | B – HEIGHT | C   | D-DEPTH | WEIGHT (LBS.)    |
|------------|------------------|------------|-----|---------|------------------|
| 1/2", 3/4" | 2.7 <sup>4</sup> | 2.3        | 1.7 | 2.0     | 0.6 <sup>4</sup> |

**MODEL NUMBER SELECTION**



| FIXED END OR UNION END <sup>5</sup> (No Union Tailpiece=X) |                |                       | UNION END ONLY <sup>5</sup> |
|--|----------------|-----------------------|-----------------------------|
| Female Threaded  | Female Sweat   | ProPress <sup>6</sup> | Male Threaded               |
| 1/2"=E, 3/4"=F <sup>7</sup>                                | 1/2"=L, 3/4"=M | 1/2"=2, 3/4"=3        | 1/2"=H, 3/4"=I              |

**NOTES**

- <sup>1</sup> Patent Pending for Disc and Venturi
- <sup>2</sup> The generally accepted upper limit as recommended by ASHRAE to prevent pipe noise is 4 ft/sec.
- <sup>3</sup> Cv's are used to calculate the permanent pressure drop. PSID=(Flow/Cv)<sup>2</sup>. Use the Flowrate vs Signal Table for flow measurement.
- <sup>4</sup> Add 1.3" to length and 0.3# to weight for union option.
- <sup>5</sup> Select the Fixed End First and the Union End Second. If no union end is required select an "X" for the 2<sup>nd</sup> digit.
- <sup>6</sup> ProPress option are ProPress adapters. ProPress is not available for unit pack box option, union option OR Lead Free Option.
- <sup>7</sup> If union option is selected, tailpiece is not available for this size. Male tailpiece used with coupling.

**FLOWRATE VS SIGNAL**

| SIGNAL<br>(INCH<br>WC) | FLOW RATE (GPM) AT PERCENT OPEN |     |     |      |      |      |      |      |      |             |     |     |     |      |      |      |      |      |
|------------------------|---------------------------------|-----|-----|------|------|------|------|------|------|-------------|-----|-----|-----|------|------|------|------|------|
|                        | 1/2" OUTLET                     |     |     |      |      |      |      |      |      | 3/4" OUTLET |     |     |     |      |      |      |      |      |
|                        | 20%                             | 30% | 40% | 50%  | 60%  | 70%  | 80%  | 90%  | 100% | 20%         | 30% | 40% | 50% | 60%  | 70%  | 80%  | 90%  | 100% |
| 5                      | 0.3                             | 0.5 | 0.7 | 1.0  | 1.4  | 2.0  | 2.2  | 4.0  | 4.1  | 0.4         | 0.3 | 0.9 | 1.1 | 1.5  | 1.8  | 2.3  | 2.4  | 2.3  |
| 10                     | 0.4                             | 0.8 | 1.1 | 1.6  | 2.1  | 2.8  | 3.1  | 5.0  | 5.2  | 0.5         | 0.6 | 1.3 | 1.6 | 2.2  | 2.6  | 3.3  | 3.6  | 3.5  |
| 15                     | 0.5                             | 1.0 | 1.4 | 2.1  | 2.6  | 3.5  | 3.9  | 5.7  | 6.1  | 0.6         | 0.7 | 1.5 | 2.0 | 2.8  | 3.3  | 4.1  | 4.5  | 4.4  |
| 20                     | 0.6                             | 1.1 | 1.6 | 2.4  | 3.1  | 4.0  | 4.5  | 6.3  | 6.8  | 0.7         | 0.9 | 1.8 | 2.3 | 3.2  | 3.8  | 4.7  | 5.3  | 5.2  |
| 25                     | 0.7                             | 1.2 | 1.8 | 2.8  | 3.5  | 4.5  | 5.0  | 6.9  | 7.5  | 0.7         | 1.0 | 2.0 | 2.6 | 3.6  | 4.3  | 5.3  | 6.0  | 5.9  |
| 30                     | 0.7                             | 1.4 | 2.0 | 3.0  | 3.9  | 4.9  | 5.5  | 7.4  | 8.0  | 0.8         | 1.1 | 2.1 | 2.9 | 4.0  | 4.7  | 5.8  | 6.6  | 6.5  |
| 35                     | 0.8                             | 1.5 | 2.2 | 3.3  | 4.3  | 5.3  | 6.0  | 7.8  | 8.6  | 0.9         | 1.2 | 2.3 | 3.2 | 4.3  | 5.1  | 6.3  | 7.1  | 7.1  |
| 40                     | 0.8                             | 1.6 | 2.4 | 3.6  | 4.6  | 5.7  | 6.4  | 8.3  | 9.1  | 0.9         | 1.3 | 2.5 | 3.4 | 4.6  | 5.5  | 6.8  | 7.7  | 7.6  |
| 45                     | 0.9                             | 1.7 | 2.5 | 3.8  | 4.9  | 6.1  | 6.8  | 8.7  | 9.5  | 1.0         | 1.4 | 2.6 | 3.6 | 4.9  | 5.8  | 7.2  | 8.2  | 8.1  |
| 50                     | 0.9                             | 1.8 | 2.7 | 4.0  | 5.2  | 6.4  | 7.2  | 9.0  | 10.0 | 1.0         | 1.5 | 2.8 | 3.8 | 5.2  | 6.2  | 7.6  | 8.6  | 8.6  |
| 55                     | 1.0                             | 1.9 | 2.8 | 4.3  | 5.5  | 6.7  | 7.5  | 9.4  | 10.4 | 1.1         | 1.6 | 2.9 | 4.0 | 5.5  | 6.5  | 8.0  | 9.1  | 9.0  |
| 60                     | 1.0                             | 1.9 | 2.9 | 4.5  | 5.7  | 7.0  | 7.9  | 9.7  | 10.8 | 1.1         | 1.7 | 3.0 | 4.2 | 5.7  | 6.8  | 8.3  | 9.5  | 9.5  |
| 65                     | 1.0                             | 2.0 | 3.1 | 4.7  | 6.0  | 7.3  | 8.2  | 10.1 | 11.2 | 1.2         | 1.8 | 3.1 | 4.4 | 6.0  | 7.1  | 8.7  | 9.9  | 9.9  |
| 70                     | 1.1                             | 2.1 | 3.2 | 4.8  | 6.2  | 7.6  | 8.5  | 10.4 | 11.6 | 1.2         | 1.9 | 3.2 | 4.5 | 6.2  | 7.3  | 9.0  | 10.3 | 10.3 |
| 75                     | 1.1                             | 2.2 | 3.3 | 5.0  | 6.4  | 7.8  | 8.8  | 10.7 | 11.9 | 1.3         | 1.9 | 3.4 | 4.7 | 6.4  | 7.6  | 9.3  | 10.7 | 10.7 |
| 80                     | 1.1                             | 2.2 | 3.4 | 5.2  | 6.7  | 8.1  | 9.1  | 11.0 | 12.3 | 1.3         | 2.0 | 3.5 | 4.9 | 6.6  | 7.9  | 9.7  | 11.0 | 11.0 |
| 85                     | 1.2                             | 2.3 | 3.5 | 5.4  | 6.9  | 8.3  | 9.4  | 11.3 | 12.6 | 1.3         | 2.1 | 3.6 | 5.0 | 6.8  | 8.1  | 10.0 | 11.4 | 11.4 |
| 90                     | 1.2                             | 2.4 | 3.6 | 5.5  | 7.1  | 8.6  | 9.7  | 11.6 | 12.9 | 1.4         | 2.1 | 3.7 | 5.2 | 7.1  | 8.3  | 10.3 | 11.7 | 11.7 |
| 95                     | 1.2                             | 2.5 | 3.7 | 5.7  | 7.3  | 8.8  | 10.0 | 11.8 | 13.2 | 1.4         | 2.2 | 3.8 | 5.3 | 7.3  | 8.6  | 10.5 | 12.1 | 12.1 |
| 100                    | 1.3                             | 2.5 | 3.8 | 5.9  | 7.5  | 9.0  | 10.2 | 12.1 | 13.5 | 1.4         | 2.3 | 3.9 | 5.5 | 7.4  | 8.8  | 10.8 | 12.4 | 12.4 |
| 110                    | 1.3                             | 2.6 | 4.0 | 6.2  | 7.9  | 9.5  | 10.7 | 12.6 | 14.1 | 1.5         | 2.4 | 4.1 | 5.7 | 7.8  | 9.2  | 11.4 | 13.0 | 13.0 |
| 120                    | 1.4                             | 2.8 | 4.2 | 6.4  | 8.3  | 9.9  | 11.2 | 13.1 | 14.7 | 1.6         | 2.5 | 4.2 | 6.0 | 8.2  | 9.7  | 11.9 | 13.6 | 13.7 |
| 130                    | 1.4                             | 2.9 | 4.4 | 6.7  | 8.6  | 10.3 | 11.7 | 13.5 | 15.2 | 1.6         | 2.6 | 4.4 | 6.3 | 8.5  | 10.1 | 12.4 | 14.2 | 14.2 |
| 140                    | 1.5                             | 3.0 | 4.6 | 7.0  | 9.0  | 10.7 | 12.1 | 14.0 | 15.8 | 1.7         | 2.7 | 4.6 | 6.5 | 8.8  | 10.5 | 12.8 | 14.7 | 14.8 |
| 150                    | 1.5                             | 3.1 | 4.7 | 7.2  | 9.3  | 11.1 | 12.6 | 14.4 | 16.3 | 1.8         | 2.8 | 4.7 | 6.7 | 9.2  | 10.8 | 13.3 | 15.3 | 15.3 |
| 160                    | 1.6                             | 3.2 | 4.9 | 7.5  | 9.6  | 11.4 | 13.0 | 14.8 | 16.8 | 1.8         | 2.9 | 4.9 | 7.0 | 9.5  | 11.2 | 13.7 | 15.8 | 15.9 |
| 170                    | 1.6                             | 3.3 | 5.0 | 7.7  | 9.9  | 11.8 | 13.4 | 15.3 | 17.2 | 1.9         | 3.0 | 5.0 | 7.2 | 9.8  | 11.6 | 14.2 | 16.3 | 16.4 |
| 180                    | 1.7                             | 3.4 | 5.2 | 8.0  | 10.2 | 12.1 | 13.8 | 15.6 | 17.7 | 1.9         | 3.1 | 5.2 | 7.4 | 10.1 | 11.9 | 14.6 | 16.8 | 16.9 |
| 190                    | 1.7                             | 3.5 | 5.3 | 8.2  | 10.5 | 12.5 | 14.2 | 16.0 | 18.1 | 2.0         | 3.2 | 5.3 | 7.6 | 10.3 | 12.2 | 15.0 | 17.3 | 17.3 |
| 200                    | 1.8                             | 3.6 | 5.5 | 8.4  | 10.8 | 12.8 | 14.5 | 16.4 | 18.6 | 2.0         | 3.3 | 5.5 | 7.8 | 10.6 | 12.5 | 15.4 | 17.7 | 17.8 |
| 225                    | 1.9                             | 3.8 | 5.8 | 9.0  | 11.5 | 13.6 | 15.4 | 17.3 | 19.6 | 2.1         | 3.5 | 5.8 | 8.3 | 11.3 | 13.3 | 16.3 | 18.8 | 18.9 |
| 250                    | N/A                             | 4.0 | 6.1 | 9.5  | 12.1 | 14.3 | 16.3 | 18.1 | 20.6 | N/A         | 3.7 | 6.1 | 8.7 | 11.9 | 14.1 | 17.2 | 19.9 | 20.0 |
| 275                    | N/A                             | 4.2 | 6.5 | 9.9  | 12.7 | 15.0 | 17.1 | 18.9 | 21.5 | N/A         | 3.9 | 6.4 | 9.2 | 12.5 | 14.8 | 18.1 | 20.9 | 21.0 |
| 300                    | N/A                             | 4.4 | 6.7 | 10.4 | 13.3 | 15.6 | 17.8 | 19.7 | 22.4 | N/A         | 4.1 | 6.7 | 9.6 | 13.0 | 15.4 | 18.9 | 21.8 | 22.0 |