

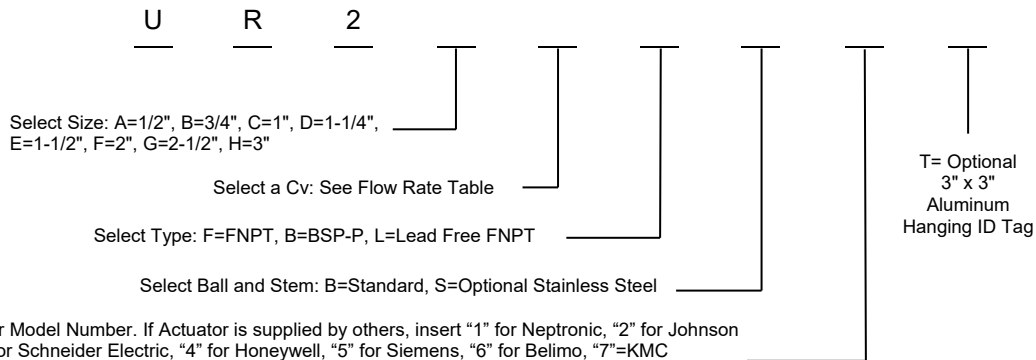
**SPECIFICATIONS**

- Static Pressure/Temp Service:** 360 PSI / 250°F (600 WOG)  
Chilled water, hot water, up to 50% Glycol, or contact factory for additional fluids.
- Flow Optimizer:** Glass Filled Polymer
- Body Material:** Forged Brass ASTM B283-06 (Lead Free<sup>1</sup> Brass Available)
- End Connections:** Brass – NPT or BSP
- Field Repairable Stem:** Dual Teflon seals and EPDM O-ring
- Stem Seals:** EPDM O-Rings
- Ball Valve:** Nickel-plated brass ball  
Optional: Stainless Steel ball
- Ball Seals:** Teflon Seals with EPDM O-Rings
- Angle of Rotation:** 0–90°

**DIMENSIONS & WEIGHTS (NOMINAL) (measured in inches and lbs unless noted)**

| SIZE   | MODEL NO. | Cv                                   | A:LENGTH |      | B:HEIGHT | C:LENGTH <sup>2</sup> |      | D:DEPTH (NOT SHOWN) | E:HANDLE | F:HEIGHT | WEIGHT |
|--------|-----------|--------------------------------------|----------|------|----------|-----------------------|------|---------------------|----------|----------|--------|
|        |           |                                      | FNPT     | BSP  |          | FNPT                  | BSP  |                     |          |          |        |
| 1/2"   | UR2A__    | 0.38, 0.68, 1.3, 2.6, 4.7, 8.0, 11.7 | 2.37     | 2.37 | 3.78     | 6.65                  | 6.65 | 3.00                | 2.02     | 8.32     | 1.0    |
| 3/4"   | UR2B__    | 0.31, 0.63, 1.2, 2.5, 4.3, 7.0, 14.7 | 2.41     | 2.41 | 3.78     | 6.65                  | 6.65 | 3.00                | 2.02     | 8.62     | 1.2    |
|        |           | 10.1, 28.6                           | 2.76     | 2.76 | 4.05     | 6.65                  | 6.65 |                     |          | 8.62     |        |
| 1"     | UR2C__    | 9.0, 28.4                            | 2.76     | 2.76 | 4.10     | 6.65                  | 6.65 | 3.00                | 2.02     | 8.64     | 1.2    |
|        |           | 4.4, 15.3, 26.1, 43.9, 54.2          | 3.04     | 3.04 | 4.39     | 6.73                  | 6.73 |                     |          | 8.96     | 1.5    |
| 1-1/4" | UR2D__    | 4.4, 8.3, 14.9, 25.0, 41.1           | 3.01     | 3.01 | 4.49     | 6.71                  | 6.71 | 3.00                | 2.02     | 9.02     | 1.5    |
|        |           | 36.5, 102.3                          | 3.62     | 3.62 | 4.87     | 7.05                  | 7.05 |                     |          | 9.45     | 2.6    |
| 1-1/2" | UR2E__    | 22.8, 30.0, 73.9                     | 3.43     | 3.43 | 4.87     | 6.96                  | 6.96 | 3.00                | 2.02     | 9.45     | 2.6    |
|        |           | 41.3, 171.7                          | 4.06     | 4.06 | 5.44     | 7.27                  | 7.27 |                     |          | 10.02    | 3.2    |
| 2"     | UR2F__    | 41.7, 108.0                          | 3.98     | 3.98 | 5.44     | 7.21                  | 7.21 | 3.50                | 2.02     | 10.02    | 3.2    |
|        |           | 57.0, 71.1, 100.0, 210, 266          | 4.90     | 4.90 | 6.06     | 7.69                  | 7.69 |                     |          | 10.65    | 5.0    |
| 2-1/2" | UR2G__    | 45.0, 55.0, 72.3, 101, 162, 202      | 5.35     | 5.35 | 6.06     | 7.91                  | 7.91 | 3.50                | 2.02     | 10.65    | 5.5    |
| 3"     | UR2H__    | 49.0, 63.0, 82.0, 124, 145           | 5.73     | 5.73 | 6.38     | 8.10                  | 8.10 | 4.00                | 2.02     | 10.91    | 6.4    |

**MODEL NUMBER SELECTION**



Insert Actuator Model Number. If Actuator is supplied by others, insert "1" for Nepronic, "2" for Johnson Controls, "3" for Schneider Electric, "4" for Honeywell, "5" for Siemens, "6" for Belimo, "7"=KMC

**NOTES**

<sup>1</sup> Contains less than 0.25% lead content on wetted surfaces, is certified to meet current legislation, and is compliant with NSF-61G standards.  
<sup>2</sup> Dimension "C" is maximum length, which is measured from end fitting or mounting plate, whichever extends farther.  
 Replaces form F-4206

Cv SELECTION AND FLOW RATE TABLE (GPM)

| LINE SIZE | MODEL NO. | FULL <sup>3</sup> PORT | CLOSE OFF $\Delta$ P <sup>4</sup> | FLOWRATE (GPM) @ DIFFERENTIAL PRESSURE (PSI) ACROSS VALVE |              |                      |             |       |       |       |       |       |       |       |       |
|-----------|-----------|------------------------|-----------------------------------|---|--------------|----------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |           |                        |                                   | 2-Position HVAC Apps                                      |              | HVAC Modulating Apps |             |       |       |       |       |       |       |       |       |
|           |           |                        |                                   | Cv <sup>5</sup>   | 0.5          | 1.0                  | 1.5         | 2.0   | 2.5   | 3.0   | 3.5   | 4.0   | 4.5   | 5.0   | 7.0   |
| 1/2"      | UR A1     |                        | 130PSI                            | 0.3   | <b>0.38</b>  | 0.5                  | 0.5         | 0.6   | 0.7   | 0.7   | 0.8   | 0.8   | 0.8   | 1.0   | 1.2   |
|           | UR A2     |                        |                                   | 0.5   | <b>0.68</b>  | 0.8                  | 1.0         | 1.1   | 1.2   | 1.3   | 1.4   | 1.4   | 1.5   | 1.8   | 2.2   |
|           | UR A3     |                        |                                   | 0.9   | <b>1.3</b>   | 1.6                  | 1.8         | 2.1   | 2.3   | 2.4   | 2.6   | 2.8   | 2.9   | 3.4   | 4.1   |
|           | UR A4     |                        |                                   | 1.8   | <b>2.6</b>   | 3.2                  | 3.7         | 4.1   | 4.5   | 4.9   | 5.2   | 5.5   | 5.8   | 6.9   | 8.2   |
|           | UR A5     |                        |                                   | 3.3   | <b>4.7</b>   | 5.8                  | 6.6         | 7.4   | 8.1   | 8.8   | 9.4   | 10.0  | 10.5  | 12.4  | 14.9  |
|           | UR A6     | •                      |                                   | 8.3   | <b>11.7</b>  | 14.3                 | 16.5        | 18.5  | 20.3  | 21.9  | 23.4  | 24.8  | 26.2  | 31.0  | 37.0  |
|           | UR A7     |                        |                                   | 5.7   | <b>8.0</b>   | 9.8                  | 11.3        | 12.6  | 13.9  | 15.0  | 16.0  | 17.0  | 17.9  | 21.2  | 25.3  |
| 3/4"      | UR B6     |                        | 130PSI                            | 0.2   | <b>0.31</b>  | 0.4                  | 0.4         | 0.5   | 0.5   | 0.6   | 0.6   | 0.7   | 0.7   | 0.8   | 1.0   |
|           | UR B7     |                        |                                   | 0.4   | <b>0.63</b>  | 0.8                  | 0.9         | 1.0   | 1.1   | 1.2   | 1.3   | 1.3   | 1.4   | 1.7   | 2.0   |
|           | UR B8     |                        |                                   | 0.8   | <b>1.2</b>   | 1.5                  | 1.7         | 1.9   | 2.1   | 2.2   | 2.4   | 2.5   | 2.7   | 3.2   | 3.8   |
|           | UR B1     |                        |                                   | 1.8   | <b>2.5</b>   | 3.1                  | 3.5         | 4.0   | 4.3   | 4.7   | 5.0   | 5.3   | 5.6   | 6.6   | 7.9   |
|           | UR B2     |                        |                                   | 3.0   | <b>4.3</b>   | 5.3                  | 6.1         | 6.8   | 7.4   | 8.0   | 8.6   | 9.1   | 9.6   | 11.4  | 13.6  |
|           | UR B9     |                        |                                   | 4.9   | <b>7.0</b>   | 8.6                  | 9.9         | 11.1  | 12.1  | 13.1  | 14.0  | 14.8  | 15.7  | 18.5  | 22.1  |
|           | UR B3     | •                      |                                   | 10.4  | <b>14.7</b>  | 18.0                 | 20.8        | 23.2  | 25.5  | 27.5  | 29.4  | 31.2  | 32.9  | 38.9  | 46.5  |
|           | UR B4     |                        |                                   | 7.1   | <b>10.1</b>  | 12.4                 | 14.3        | 16.0  | 17.5  | 18.9  | 20.2  | 21.4  | 22.6  | 26.7  | 31.9  |
|           | UR B5     | •                      |                                   | 20.2  | <b>28.6</b>  | 35.0                 | 40.4        | 45.2  | 49.5  | 53.5  | 57.2  | 60.7  | 64.0  | 75.7  | 90.4  |
| 1"        | UR C1     |                        | 100PSI                            | 6.4   | <b>9.0</b>   | 11.0                 | 12.7        | 14.2  | 15.6  | 16.8  | 18.0  | 19.1  | 20.1  | 23.8  | 28.5  |
|           | UR C2     | •                      |                                   | 20.1  | <b>28.4</b>  | 34.8                 | 40.2        | 44.9  | 49.2  | 53.1  | 56.8  | 60.2  | 63.5  | 75.1  | 89.8  |
|           | UR C7     |                        |                                   | 3.1   | <b>4.4</b>   | 5.4                  | 6.2         | 7.0   | 7.6   | 8.2   | 8.8   | 9.3   | 9.8   | 11.6  | 13.9  |
|           | UR C3     |                        |                                   | 10.8  | <b>15.3</b>  | 18.7                 | 21.6        | 24.2  | 26.5  | 28.6  | 30.6  | 32.5  | 34.2  | 40.5  | 48.4  |
|           | UR C4     | •                      |                                   | 38.3  | <b>54.2</b>  | 66.4                 | 76.7        | 85.7  | 93.9  | 101.4 | 108.4 | 115.0 | 121.2 | 143.4 | 171.4 |
|           | UR C5     |                        |                                   | 18.5  | <b>26.1</b>  | 32.0                 | 36.9        | 41.3  | 45.2  | 48.8  | 52.2  | 55.4  | 58.4  | 69.1  | 82.5  |
|           | UR C6     |                        |                                   | 31.0  | <b>43.9</b>  | 53.8                 | 62.1        | 69.4  | 76.0  | 82.1  | 87.8  | 93.1  | 98.2  | 116.1 | 138.8 |
| 1-1/4"    | UR D5     |                        | 100PSI                            | 3.1   | <b>4.4</b>   | 5.4                  | 6.2         | 7.0   | 7.6   | 8.2   | 8.8   | 9.3   | 9.8   | 11.6  | 13.9  |
|           | UR D6     |                        |                                   | 5.9   | <b>8.3</b>   | 10.2                 | 11.7        | 13.1  | 14.4  | 15.5  | 16.6  | 17.6  | 18.6  | 22.0  | 26.4  |
|           | UR D1     |                        |                                   | 10.5  | <b>14.9</b>  | 18.2                 | 21.1        | 23.6  | 25.8  | 27.9  | 29.8  | 31.6  | 33.3  | 39.4  | 47.1  |
|           | UR D7     |                        |                                   | 17.7  | <b>25.0</b>  | 30.6                 | 35.4        | 39.5  | 43.3  | 46.8  | 50.0  | 53.0  | 55.9  | 66.1  | 79.1  |
|           | UR D2     | •                      |                                   | 29.1  | <b>41.1</b>  | 50.3                 | 58.1        | 65.0  | 71.2  | 76.9  | 82.2  | 87.2  | 91.9  | 108.7 | 130.0 |
|           | UR D3     |                        |                                   | 25.8  | <b>36.5</b>  | 44.7                 | 51.6        | 57.7  | 63.2  | 68.3  | 73.0  | 77.4  | 81.6  | 96.6  | 115.4 |
|           | UR2D4     | •                      |                                   | 72.3  | <b>102.3</b> | 125.3                | 144.7       | 161.8 | 177.2 | 191.4 | 205   | 217   | 229   | 271   | 324   |
| 1-1/2"    | UR E1     |                        | 100PSI                            | 16.1  | <b>22.8</b>  | 27.9                 | 32.2        | 36.0  | 39.5  | 42.7  | 45.6  | 48.4  | 51.0  | 60.3  | 72.1  |
|           | UR E5     |                        |                                   | 21.2  | <b>30.0</b>  | 36.7                 | 42.4        | 47.4  | 52.0  | 56.1  | 60.0  | 63.6  | 67.1  | 79.4  | 94.9  |
|           | UR E2     | •                      |                                   | 52.3  | <b>73.9</b>  | 90.5                 | 104.5       | 116.8 | 128.0 | 138.3 | 147.8 | 156.8 | 165.2 | 195.5 | 234   |
|           | UR E3     |                        |                                   | 29.2  | <b>41.3</b>  | 50.6                 | 58.4        | 65.3  | 71.5  | 77.3  | 82.6  | 87.6  | 92.3  | 109.3 | 130.6 |
|           | UR E4     | •                      |                                   | 121.4   | <b>171.7</b> | 210                  | 243         | 272   | 297   | 321   | 343   | 364   | 384   | 454   | 543   |
| 2"        | UR F1     |                        | 100PSI                            | 29.5  | <b>41.7</b>  | 51.1                 | 59.0        | 65.9  | 72.2  | 78.0  | 83.4  | 88.5  | 93.2  | 110.3 | 131.9 |
|           | UR F2     | •                      |                                   | 76.4  | <b>108.0</b> | 132.3                | 152.7       | 170.8 | 187.1 | 202   | 216   | 229   | 242   | 286   | 342   |
|           | UR F5     |                        |                                   | 40.3  | <b>57.0</b>  | 69.8                 | 80.6        | 90.1  | 98.7  | 106.6 | 114.0 | 120.9 | 127.5 | 150.8 | 180.2 |
|           | UR F3     |                        |                                   | 50.3  | <b>71.1</b>  | 87.1                 | 100.6       | 112.4 | 123.1 | 133.0 | 142.2 | 150.8 | 159.0 | 188.1 | 225   |
|           | UR F6     |                        |                                   | 70.7  | <b>100.0</b> | 122.5                | 141.4       | 158.1 | 173.2 | 187.1 | 200   | 212   | 224   | 265   | 316   |
|           | UR F7     |                        |                                   | 148.5   | <b>210</b>   | 257                  | 297         | 332   | 364   | 393   | 420   | 445   | 470   | 556   | 664   |
|           | UR F4     | •                      |                                   | 188.1   | <b>266</b>   | 326                  | 376         | 421   | 461   | 498   | 532   | 564   | 595   | 704   | 841   |
| 2-1/2"    | UR G2     |                        | 100PSI                            | 31.8  | <b>45.0</b>  | 55.1                 | 63.6        | 71.2  | 77.9  | 84.2  | 90.0  | 95.5  | 100.6 | 119.1 | 142.3 |
|           | UR G3     |                        |                                   | 38.9  | <b>55.0</b>  | 67.4                 | 77.8        | 87.0  | 95.3  | 102.9 | 110.0 | 116.7 | 123.0 | 145.5 | 173.9 |
|           | UR G4     |                        |                                   | 50.9  | <b>72.0</b>  | 88.2                 | 101.8       | 113.8 | 124.7 | 134.7 | 144.0 | 152.7 | 161.0 | 190.5 | 228   |
|           | UR G5     |                        |                                   | 71.4  | <b>101.0</b> | 123.7                | 142.8       | 159.7 | 174.9 | 189.0 | 202.0 | 214.3 | 225.8 | 267.2 | 319   |
|           | UR G6     |                        |                                   | 114.6   | <b>162.0</b> | 198.4                | 229         | 256   | 281   | 303.1 | 324   | 344   | 362   | 429   | 512   |
|           | UR G7     | •                      |                                   | 142.8   | <b>202</b>   | 247                  | 286         | 319   | 350   | 378   | 404   | 429   | 452   | 534   | 639   |
|           | 3"        | UR H1                  |                                   |   | 100PSI       | 34.6                 | <b>49.0</b> | 60.0  | 69.3  | 77.5  | 84.9  | 91.7  | 98.0  | 103.9 | 109.6 |
| UR H2     |           |                        | 44.5                              | <b>63.0</b>   |              | 77.2                 | 89.1        | 99.6  | 109.1 | 117.9 | 126.0 | 133.6 | 140.9 | 166.7 | 199.2 |
| UR H3     |           |                        | 58.0                              | <b>82.0</b>   |              | 100.4                | 116.0       | 129.7 | 142.0 | 153.4 | 164.0 | 173.9 | 183.4 | 217   | 259   |
| UR H4     |           |                        | 87.7                              | <b>124.0</b>  |              | 151.9                | 175.4       | 196.1 | 215   | 232   | 248   | 263   | 277   | 328   | 392   |
| UR H5     |           | •                      | 102.5                             | <b>145.0</b>  |              | 177.6                | 205         | 229   | 251   | 271   | 290   | 308   | 324   | 384   | 459   |

NOTES

<sup>3</sup> These valves are full port and do not have the Optimizer insert.

<sup>4</sup> Close-Off Pressures measured with 35 in-lb. actuator. The "Close Off Pressure" is the maximum allowable pressure drop across the valve body when the valve is fully closed. (Do not use actuators with torques higher than 90 in-lbs)

<sup>5</sup> Cv is defined as the quantity of water in GPM at 60°F that will flow through a given valve with a pressure drop of 1PSI. Hence the 1.0 PSI pressure differential column in the table above is equivalent to the Cv value.

Replaces form F-4206

