

## Knife Gate Actuation Times

|                          | HP           | KGA 24 | KGA 26 | KGA 30 | KGA 36 | KGA 42          | KGA 54 | KGA 60          | KGA 72  |
|--------------------------|--------------|--------|--------|--------|--------|-----------------|--------|-----------------|---------|
| Bore (in)                |              | 6.00   | 4.00   | 5.00   | 6.00   | 8.00            | 8.00   | 8.00            | 10.00   |
| Rod (in)                 |              | 1.75   | 1.50   | 2.50   | 2.50   | 3.50            | 3.50   | 3.50            | 4.00    |
| Stroke (in)              |              | 27.00  | 29.00  | 33.00  | 39.00  | 46.00           | 57.00  | 64.00           | 76.00   |
| Operating PSI            |              | 1000   | 2000   | 2000   | 2000   | 2000            | 2000   | 2000            | 2000    |
| <b>Custom Power Unit</b> | <b>20.0+</b> |        |        |        |        |                 |        |                 |         |
| Open (Seconds)           |              | 11.34  | 5.08   | 7.89   | 14.79  | 30.35           | 37.61  | 42.23           | 81.40   |
| Close (Seconds)          |              | 12.39  | 5.92   | 10.52  | 17.90  | 37.54           | 46.51  | 52.22           | 96.90   |
| <b>CAC-2</b>             | <b>14.0</b>  |        |        |        |        |                 |        |                 |         |
| Open (Seconds)           |              | 18.14  | 8.13   | 12.62  | 23.67  | 48.56           | 60.17  | 67.56           | 130.23  |
| Close (Seconds)          |              | 19.83  | 9.47   | 16.83  | 28.64  | 60.06           | 74.42  | 83.56           | 155.04  |
| <b>EVS-2</b>             | <b>14.0</b>  |        |        |        |        |                 |        |                 |         |
| Open (Seconds)           |              | 26.12  | 11.71  | 18.18  | 34.08  | 69.93           | 86.65  | 97.29           | 187.54  |
| Close (Seconds)          |              | 23.79  | 11.36  | 20.20  | 34.37  | 72.07           | 89.30  | 100.27          | 186.05  |
| <b>LCA</b>               | <b>5.0</b>   |        |        |        |        |                 |        |                 |         |
| Open (Seconds)           |              | 45.35  | 20.34  | 31.56  | 59.17  | 121.41          | 150.44 | Not Recommended |         |
| Close (Seconds)          |              | 49.57  | 23.66  | 42.07  | 71.60  | 150.14          | 186.05 | Not Recommended |         |
| <b>EVS-1</b>             | <b>3.0</b>   |        |        |        |        |                 |        |                 |         |
| Open (Seconds)           |              | 64.79  | 29.05  | 45.08  | 84.53  | Not Recommended |        | Not Recommended |         |
| Close (Seconds)          |              | 70.82  | 33.81  | 60.11  | 102.29 | Not Recommended |        | Not Recommended |         |
| <b>Hydra-Helper</b>      | <b>1.5</b>   |        |        |        |        |                 |        |                 |         |
| Open (Seconds)           |              | 181.42 | 81.34  | 126.22 | 236.69 | 485.62          | 601.75 | 675.65          | 1302.33 |
| Close (Seconds)          |              | 198.29 | 94.66  | 168.30 | 286.42 | 600.57          | 744.19 | 835.58          | 1550.40 |
| <b>Monarch</b>           | <b>1.0</b>   |        |        |        |        |                 |        |                 |         |
| Open (Seconds)           |              | 362.84 | 162.69 | 252.45 | 473.38 | Not Recommended |        | Not Recommended |         |
| Close (Seconds)          |              | 396.57 | 189.31 | 336.60 | 572.83 | Not Recommended |        | Not Recommended |         |

Note: Do not recommend to exceed 1"/second for any valve. Maximum theoretical speed shown -- speed can be controlled -- times may vary as much as 5%.

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