

| Styrene      |                                                |                          |           |                       |         |           |           |                                |          |          |              |      |                      |             |
|--------------|------------------------------------------------|--------------------------|-----------|-----------------------|---------|-----------|-----------|--------------------------------|----------|----------|--------------|------|----------------------|-------------|
| Valve Number | Valve Description                              | Design Temperature Range |           | Design Pressure Range |         | Pipe Size |           | Recommended Valve <sup>1</sup> |          |          |              |      |                      |             |
|              |                                                | deg F                    | deg C     | psig                  | bar g   | in        | dn        | C-Series                       | T-Series | G-Series | ISOLATOR 2.0 | IRSV | MOGAS Watson Series™ | FlexStream® |
| 1            | Fresh Ethylbenzene                             | 300                      | 149       | 50 – 100              | 3 – 7   | 4 – 8     | 100 – 200 |                                |          |          | •            |      |                      |             |
| 2            | Superheated Steam                              | 1100–1200                | 593 – 649 | 50 – 100              | 3 – 7   | 2 – 4     | 50 – 100  | •                              |          |          |              |      |                      |             |
| 3            | Reactor                                        | 1100–1200                | 593 – 649 | 50 – 100              | 3 – 7   | 4 – 8     | 100 – 200 | •                              |          |          |              |      |                      |             |
| 4            | Heat Exchanger Bank 1                          | 500                      | 260       | 50 – 100              | 3 – 7   | 4 – 8     | 100 – 200 |                                |          |          | •            |      |                      |             |
| 5            | Heat Exchanger Bank 2                          | 150                      | 66        | 50 – 100              | 3 – 7   | 4 – 8     | 100 – 200 |                                |          |          | •            |      |                      |             |
| 6            | Decanter / Separator Overhear Hydrogen Gas     | 150                      | 66        | 50 – 100              | 3 – 7   | 4 – 8     | 100 – 200 |                                |          |          | •            |      |                      |             |
| 7            | Decanter / Separator Residual Waste Water      | 150                      | 66        | 50 – 100              | 3 – 7   | 4 – 8     | 100 – 200 |                                |          |          | •            |      |                      |             |
| 8            | Decanter / Separator                           | 150                      | 66        | 50 – 100              | 3 – 7   | 4 – 8     | 100 – 200 |                                |          |          | •            |      |                      |             |
| 9            | Benzene / Toluene Distillation Column Overhead | 250                      | 121       | 50 – 100              | 3 – 7   | 4 – 8     | 100 – 200 |                                |          |          | •            |      |                      |             |
| 10           | Benzene / Toluene Distillation Column          | 250 – 300                | 121 – 149 | 50 – 100              | 3 – 7   | 4 – 8     | 100 – 200 |                                |          |          | •            |      |                      |             |
| 11           | Recycle Ethylbenzene                           | 250 – 300                | 121 – 149 | 50 – 100              | 3 – 7   | 4 – 8     | 100 – 200 |                                |          |          | •            |      |                      |             |
| 12           | Styrene Product                                | 250                      | 121       | 50 – 100              | 3 – 7   | 4 – 8     | 100 – 200 |                                |          |          | •            |      |                      |             |
|              | Heat Exchanger                                 | 300 – 1000               | 149 – 338 | 200 – 600             | 14 – 41 | 1/2 – 2   | 15 – 50   |                                |          |          |              | •    |                      |             |
|              | General Ball Valves                            | 600 – 700                | 316 – 371 | 100 – 600             | 7 – 41  | 1 – 3     | 25 – 75   |                                |          | •        |              |      |                      |             |

<sup>1</sup> Recommend ISOLATOR 2.0 or T-Series if size, pressure and temperature conditions are met.

