**1150 / 1152 / 1640 Design Request Sheet**

**Blue shaded cells must be filed out**

Step 1 - Application Information – Fill out necessary information

|  |  |  |  |
| --- | --- | --- | --- |
| Source material |  | Source temperature °C |  |
| Maximum flow rate |  | Maximum process pressure |  |

Step 2- Material Properties – For new materials only

|  |  |  |  |
| --- | --- | --- | --- |
| Molecular mass, g/mol |  | Source material decomposition temperature, °C |  |
| Source material compatible with |  |
| Vapor pressure and gas viscosity information, if available: |
| Temperature, °C | Vapor pressure, torr | Gas viscosity, µpoise |
|  |  |  |
|  |  |  |

Step 3 - Plumbing Details – It is important to be as complete as possible

|  |  |  |
| --- | --- | --- |
| Plumbing type | Upstream of MFC | Downstream of MFC |
| Tubing length |  |  |
| Tubing diameter |  |  |
| Elbows (size & quantity) |  |  |
| Valves (size & quantity) |  |  |

***Recommended tubing diameter:***

1150 and 1152: 1/2" (12 mm) OD minimum recommended

1640: 1/4" (6 mm) OD minimum recommended



Step 4- Please send completed request to:

Mark\_Townsend@mksinst.com and/or Bill\_Corkum@mksinst.com

Step 5 - To Be Filled Out by MKS Applications Engineering

|  |  |  |  |
| --- | --- | --- | --- |
| Model request number |  | MKS product model number |  |