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|  | |  | | --- | | **Simulation of Piston**  **Date: Wednesday, November 24, 2021 Designer: Iyad Baz**  **Study name: Static 1**  **Analysis type: Static** | | Table of Contents  [Description 1](#_Toc88606772)  [Study Results 2](#_Toc88606773) | |
| Description Analysis of piston during expansion stroke |

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| Study Results  | Name | Type | Min | Max | | --- | --- | --- | --- | | Stress1 | VON: von Mises Stress | 3.628e-11N/mm^2 (MPa)  Node: 29068 | 7.893e-01N/mm^2 (MPa)  Node: 39812 | | **Piston-Static 1-Stress-Stress1** | | | |  | Name | Type | Min | Max | | --- | --- | --- | --- | | Displacement1 | URES: Resultant Displacement | 0.000e+00mm  Node: 12 | 1.074e-03mm  Node: 67247 | | **Piston-Static 1-Displacement-Displacement1** | | | |  | Name | Type | Min | Max | | --- | --- | --- | --- | | Strain1 | ESTRN: Equivalent Strain | 3.733e-16  Element: 8138 | 6.608e-06  Element: 23255 | | **Piston-Static 1-Strain-Strain1** | | | |  | Name | Type | Min | Max | | --- | --- | --- | --- | | Factor of Safety1 | Automatic | 2.626e+02  Node: 39812 | 1.410e+13  Node: 22943 | | **Piston-Static 1-Factor of Safety-Factor of Safety1** | | | | |