

# ATLAS22

## Ground Test Release Actuators

Get faster in the new space race.



Development of space mechanisms with space qualified release actuators can be long and expensive process. Some of the units still need to be sent abroad for refurbishment after each release. **ATLAS** ground test actuators make the development **affordable** and keep it **representative**.

SPACERACE developed rapidly **reusable** non-explosive release actuator for **ground testing of space mechanisms**. The unit envelopes a broad range of commercially available space-rated non-explosive release actuators, with the representative mechanical interface, release times or release current.

ATLAS is especially efficient in the development of **multi-actuator mechanisms** with precise synchronization. **Initiation Control Unit** allows for power and control of multiple actuators at the same time. Release scenarios can be easily prepared in the control software by a few mouse clicks. The actuators are rapidly resettable by replacing the cartridge with **redundant initiators**.

### ATLAS22 features

<b>Mechanical interface</b>	User customizable (NEA, Glenair, Eaton, Arquimea and more)
<b>Release bolt thread</b>	User customizable up to M8
<b>Release preload</b>	<b>22 kN</b>
<b>Design limit load</b>	33 kN
<b>Mass</b>	240 g (without harness and connector)
<b>Actuation</b>	PC controlled for multiple actuators
<b>Release time</b>	<b>&lt; 50 ms</b>
<b>Reset</b>	Release Initiation Unit replacement directly on tested article <b>under 1 min</b> with supplied tool
<b>Life</b>	100 guaranteed releases according to ECSS-E-ST-33-01C
<b>Actuation current</b>	4 A
<b>Temperature range</b>	0°C to 40°C
<b>Vacuum</b>	Upon request
<b>Expected qualification</b>	Q1 2024

Supported by:

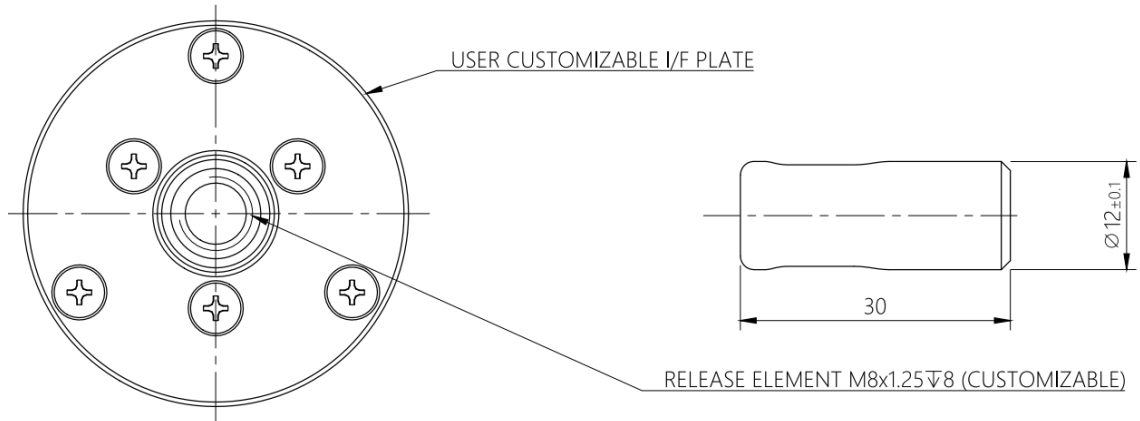


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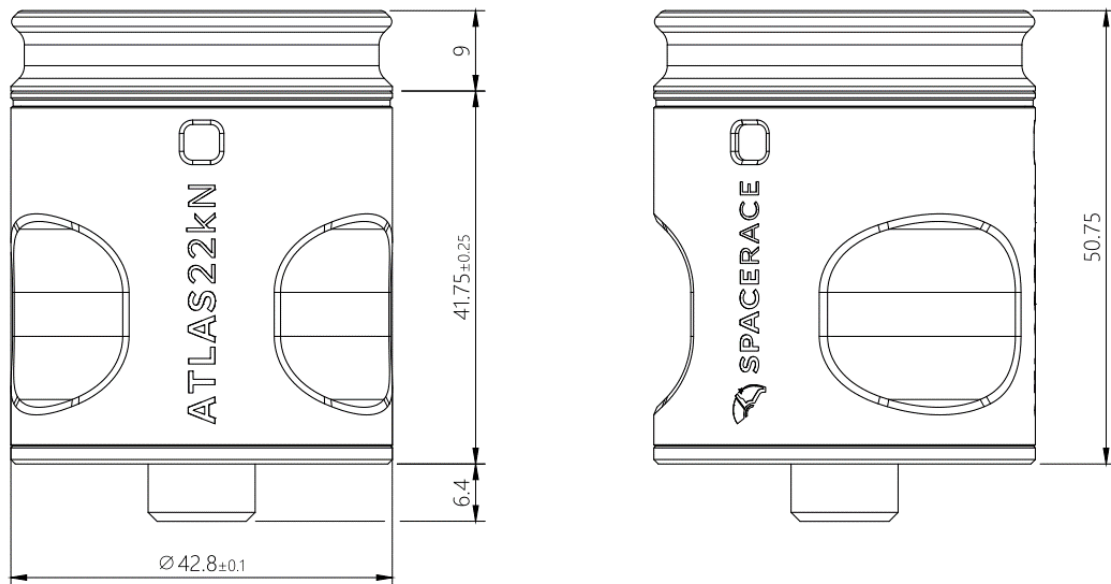
Czech  
Republic

## ATLAS22 INTERFACES

### BOTTOM VIEW:



### SIDE VIEW:



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