## CAPSULE

| LANDING SYSTEMS |  |
| :---: | :---: |
| $\square$ | Restrictors |
| - | Check Valves |
| $\xi$ | Relief Valves |
| $\square$ | Safety Screens |
| W | Solenoid Valves |


| ORBITAL MANEUVERING |  | (W)(\%) | Solenoid Valves |
| :---: | :---: | :---: | :---: |
| $\square \smile$ | Restrictors | LAUNCH ABORT |  |
| -0 | Check Valves | $\bigcirc$ | Restrictors |
| $=0$ | Relief Valves | - | Check Valves |
| -1) | Safety Screens | $\bigcirc$ | Safety Screens |
| W\|in | Solenoid Valves | W7/ | Solenoid Valves |

## LAUNCH VEHICLE / ENGINE

| FUEL/PNEUMATIC CONTROL LINES |  |  |
| :---: | :---: | :---: |
| $\checkmark \checkmark$ Restrictors |  |  |
| 位 $\breve{\sim}$ | HEAT EXCHANGER |  |
| Check Valves | - Check Valves |  |
| SoO Shuttle Valves | $\checkmark$ Safety Screens | GAS GENERATOR |
|  | THRUST VECTOR | - Check Valves |
| $\square$ Safety Screens | CONTROL | $\checkmark$ Safety Screens |
| W/7/ग Solenoid Valves |  |  |
|  | L | VALVES |
| STAGE/FAIRING SEPARATION | -- Check Valves |  |
| $\checkmark \preceq$ Restrictors | Relief Valves | C-Check Valves |
| 0 Check Valves | $\square$ Safety Screens | $\checkmark$ Restrictors |
| $\square$ Safety Screens | W/ | $\square$ Safety Screens |

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## Lee Plugs ${ }^{\circledR}$

- Plug drilled holes without the need for welds, sealants or o-rings
- Wide range of sizes and materials for critical applications
- Proof pressures exceeding 30,000 psid available
- Certified to Boeing and SAE standards



## Shuttle Valves

- Provide emergency system isolation or mode select functions
- Selective, spring-biased, detented and inverse configurations available
- Sizes from 0.187" to 0.5" diameter
- Soft seat options when leakage is critical



## Restrictors

- Single and multi-stage orifices for accurate flow metering
- $100 \%$ tested within tolerances as tight as +/-2\%
- Integral safety screens
- Multi-orifice configurations increase resistance to contamination and reduce the potential for cavitation



## Relief Valves

- Satisfy a variety of specific pressure relief needs
- Low hysteresis and stable performance
- Offered in a wide range of envelopes, cracking pressures and flow rates
- Thermal relief, soft seat or added dampening features available



## Nozzles

- Lubrication Jets produce an accurate, solid stream of fluid
- Tested for flow and tar-get-hitting ability
- Spin Jets produce a pressure-atomized hollowcone spray pattern
- Integral safety screens available



## Safety Screens

- Provide last chance protection against contamination
- Etched screens maximize open area in an economical design
- Hi-Bar ${ }^{\circledR}$ drilled screens provide high-strength and highly customizable designs
- Variety of sizes, materials, configurations and retention methods available



## Chek ${ }^{\circledR}$ Valves

- Eliminate backflow with minimal flow restriction in the smallest package
- Screened, side exit and pilot-operated configurations available
- Sizes from 0.093" to $1.5^{\prime \prime}$ diameter
- Soft seat options when leakage is critical



## Solenoid Valves

- Utilize the patented Lee Multiseal ${ }^{\text {TM }}$ for the smallest solenoid in the market
- Fast response times with low power consumption
- Proven reliability
- High flow, soft seat and latching options available


Flow Control Components

- Restrictor Cheks ${ }^{\circledR}$ function as a restrictor and check valve in series
- Directional flow control valves function as a restrictor and check valve in parallel
- Floserts ${ }^{\circledR}$ provide a constant flow rate across a wide range of differential pressures



## Positive Displacement Pumps

- Radial piston design with integrated brushless DC motor
- Flow capability up to 235 PPH
- Qualified for 1,000 hours of operation
- Capable of self-priming


Partial view of our Westbrook, CT campus


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