GE offers the innovative Veloca Atmospheric Ball Launching System that dispenses balls into the wellbore during fracturing operations. This unique frac technology is part of GE’s Shale 360 Services solution. With full remote operation, operators gain reduced cost and increased frac time productivity. The system—consisting of ball launcher, remote control panel and launch valve assembly—offers quick assembly.

### Ball Launcher Features
- Balls are easily and sequentially loaded into an atmospheric launcher (ideal for dissolvable ball applications)
- Balls remain physically visible until deployment into the launch valve assembly, reducing the risk of incorrect launch sequence
- May be loaded on or off wellhead
- 24-ball capacity (stack specific)
- 90" tall
- Ball availability
  - Any configuration (1/16", 1/8", 1/4" step)
  - Up to 3.9" diameter
  - Repeater
  - Aluminum and heavy weight
- Maximum operating temperature ranges from -49°F to +113°F (-45°C to +45°C)
- Hydraulic driven
- Mechanical and electronic position indication system

### Control Panel Features
- Control panel allows all launch equipment to be operated remotely from a safe distance
- Fully equipped with valve position and pressure indicator, accumulator backup, 10,000 psi equalization pumping equipment and methanol water storage
- Built-in safety features prevent an uncontrolled pressure release
- Accumulator backup for emergency remote valve operation
- Electronic control valve shutdown
- Position indicators
- 265-gallon storage tank
- 5-gallon/minute triplex
- 10,000 psi injector test pump
Launch Valve Assembly Features

- Launch assembly houses the balls once they are loaded on the launch gate
- Includes remotely operated:
  - Well control 4” 10,000 psi or 4” 15,000 psi valve
  - 10,000 psi or 15,000 psi ball launch pump in port
  - 10,000 psi or 15,000 psi bleed off port
  - Launch flush port
  - 24-turn API rotary actuated valves
- All pressure control equipment meets API specifications
- Valves can be manually operated in the unlikely event of hydraulic failure
- Mechanical valve position indicators
- All side ports screened to prevent ball lodging
- Pressure is equalized using the control panel’s pumping system without the need for third party equipment
- 10,000 psi or 15,000 psi pressure rating
- Integral freeze protection system