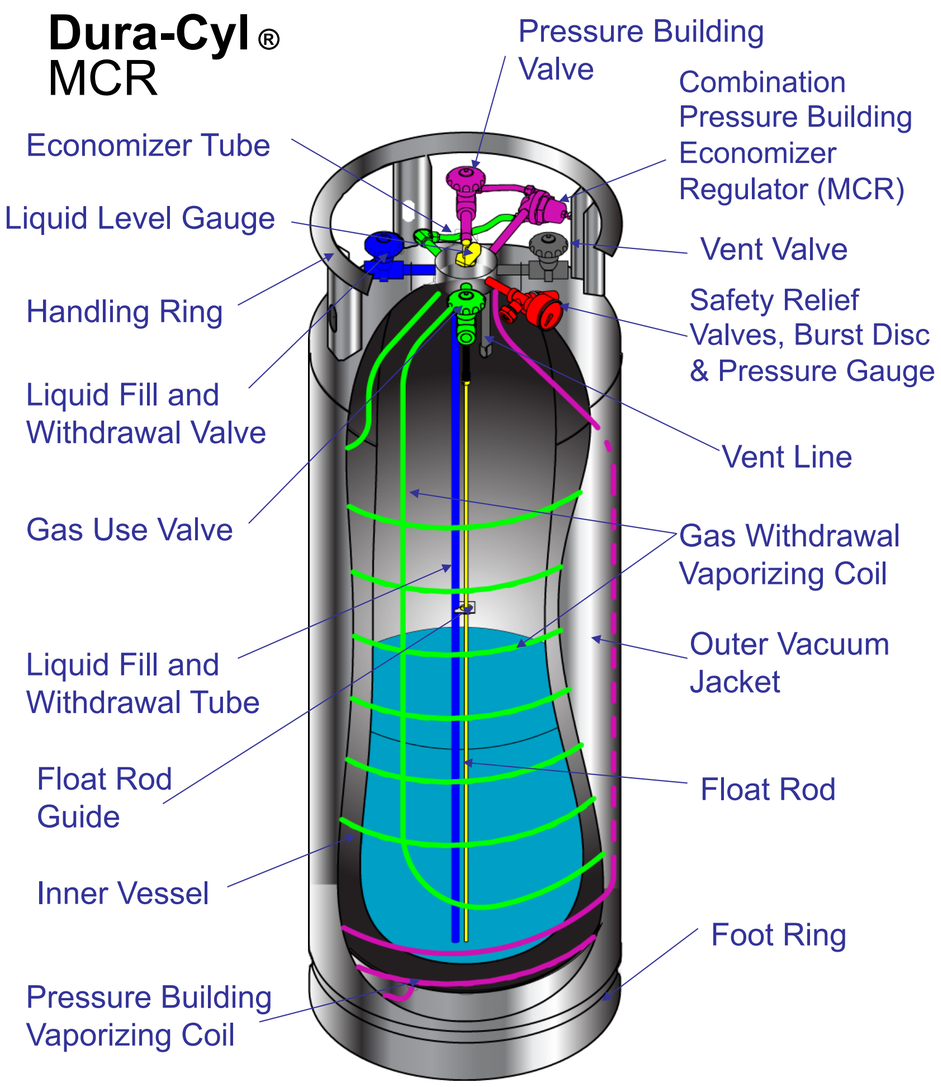
Liquid Cylinder Troubleshooting Guide



Pressure

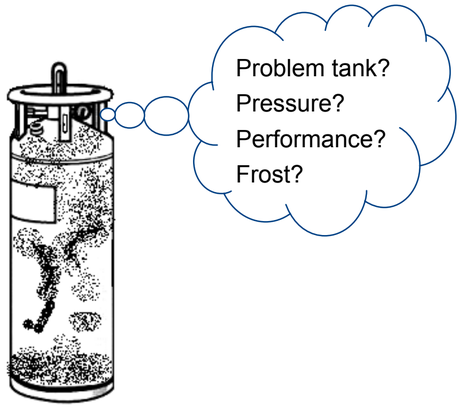
Tank Pressure

Low

- Is the cylinder empty?
- PB isolation valve closed? *Open the PB*
- Regulator out of adjustment? *Remove & bench test*
- Regulator inlet plugged? *Remove contaminants*
- Regulator defective? *Rebuild or replace*
- Huge leak? *Listen… Frost on lines? Leak check plumbing*

High

- Low usage? *100 SCF/Day Min*
- Application? *Liquid only = no gas used*
- Regulator out of adjustment? *Remove & bench test*
- Regulator seat obstructed? *Remove, clean or replace*
- Regulator defective? *Rebuild or replace*
- Bad vacuum? *Pressure Rise & NER tests*



Performance

Right cylinder for application:
LP = liquid withdrawal
HP = high withdrawal
Laser = high pressure, high withdrawal

- Refer to manufacturer's operating manual for proper pressure & delivery specifications
- Provide larger capacity cylinder when needed
- Provide additional vaporization capacity when needed

Frost

- Frost on top of cylinder is normal after fill
- Frost on side of cylinder is normal during or after use
- Frost over entire cylinder is normal with high rates of gas withdrawal
- Frost without use: *Possible leak or defective cylinder*
  - Frost on side of tank without use? *Leak in Gas Use Line*
  - Frost near bottom of tank: *Leak in plumbing and cylinder is trying to build pressure*
  - Are there defective or leaking valves or safety devices causing frost?
  - Frost over entire cylinder without use? *Likely a bad vacuum: Pressure Rise & NER tests*

Legend

- Info. Needed
- Process
- Decision