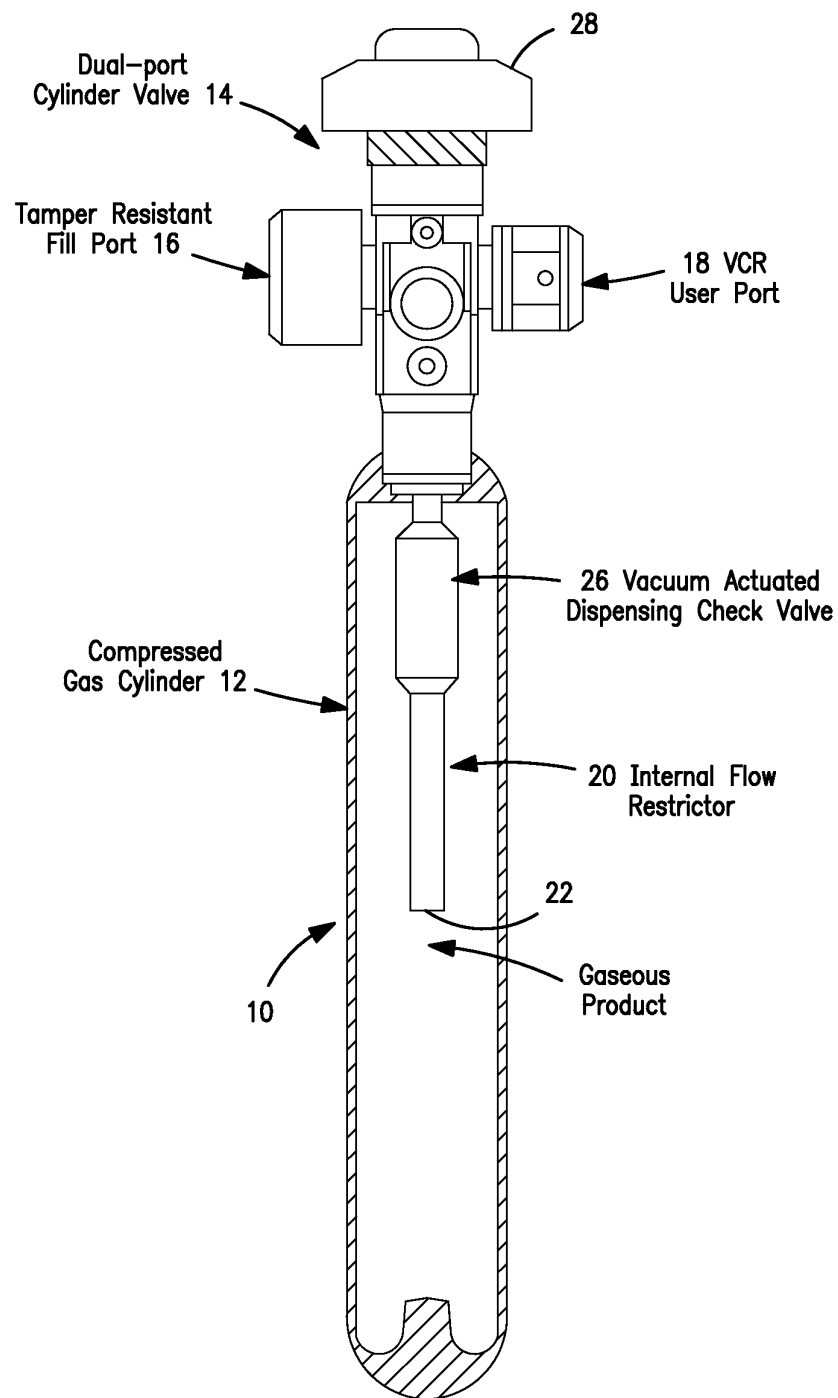


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**FIG. 1**

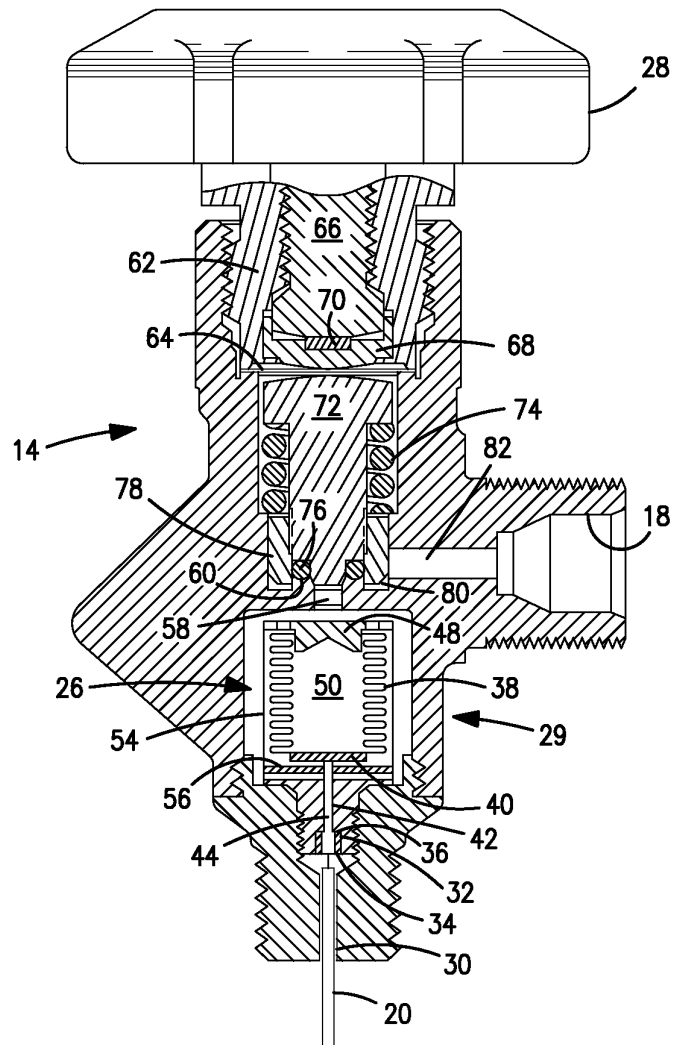


FIG. 2

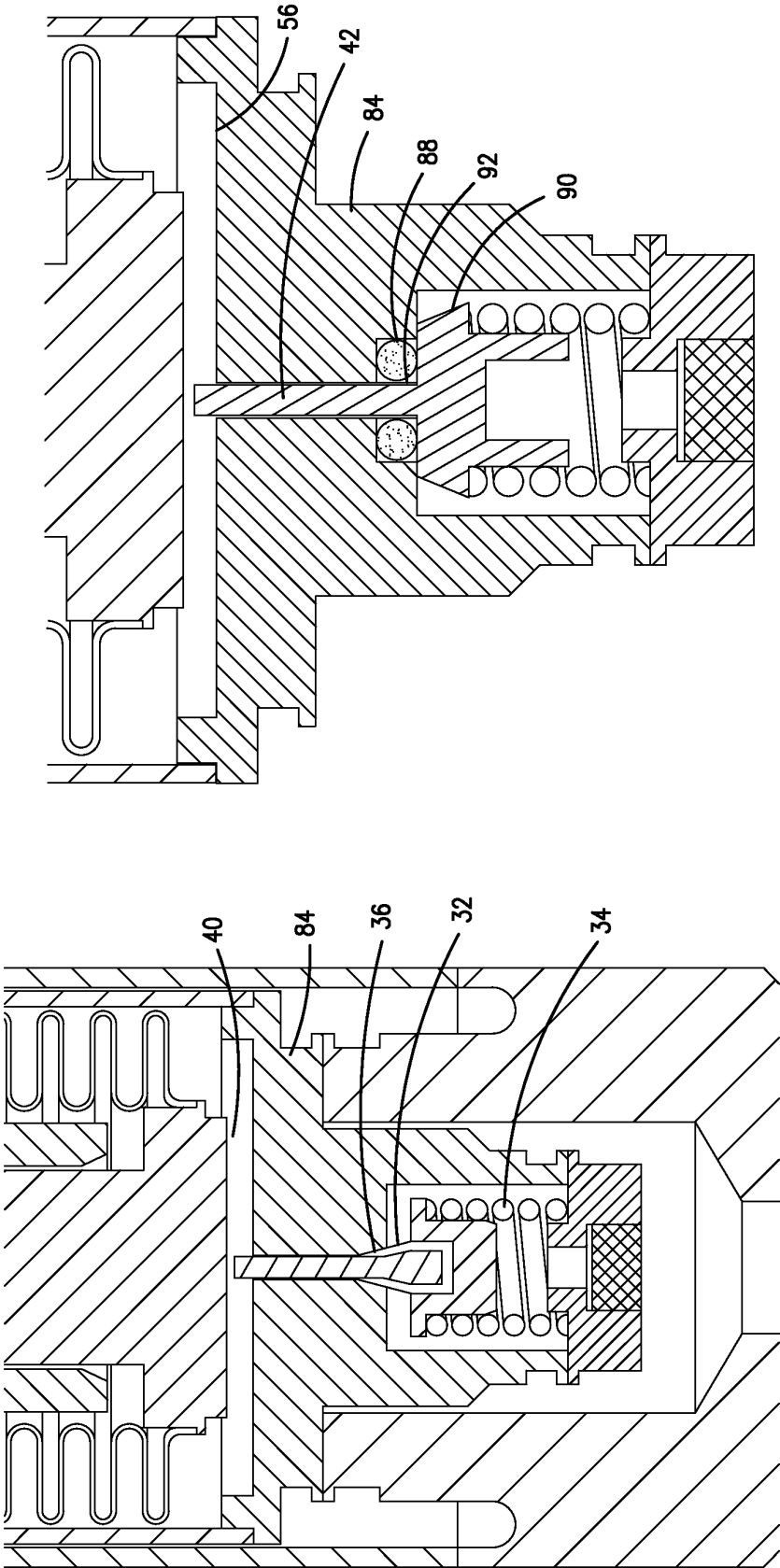


FIG. 2a

Standard pin/poppet assembly

FIG. 3

RELATED ART

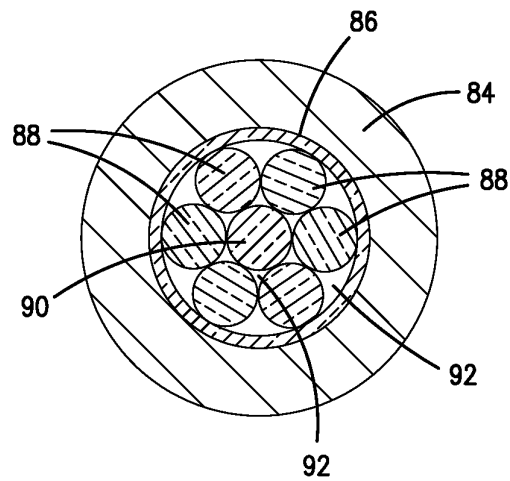
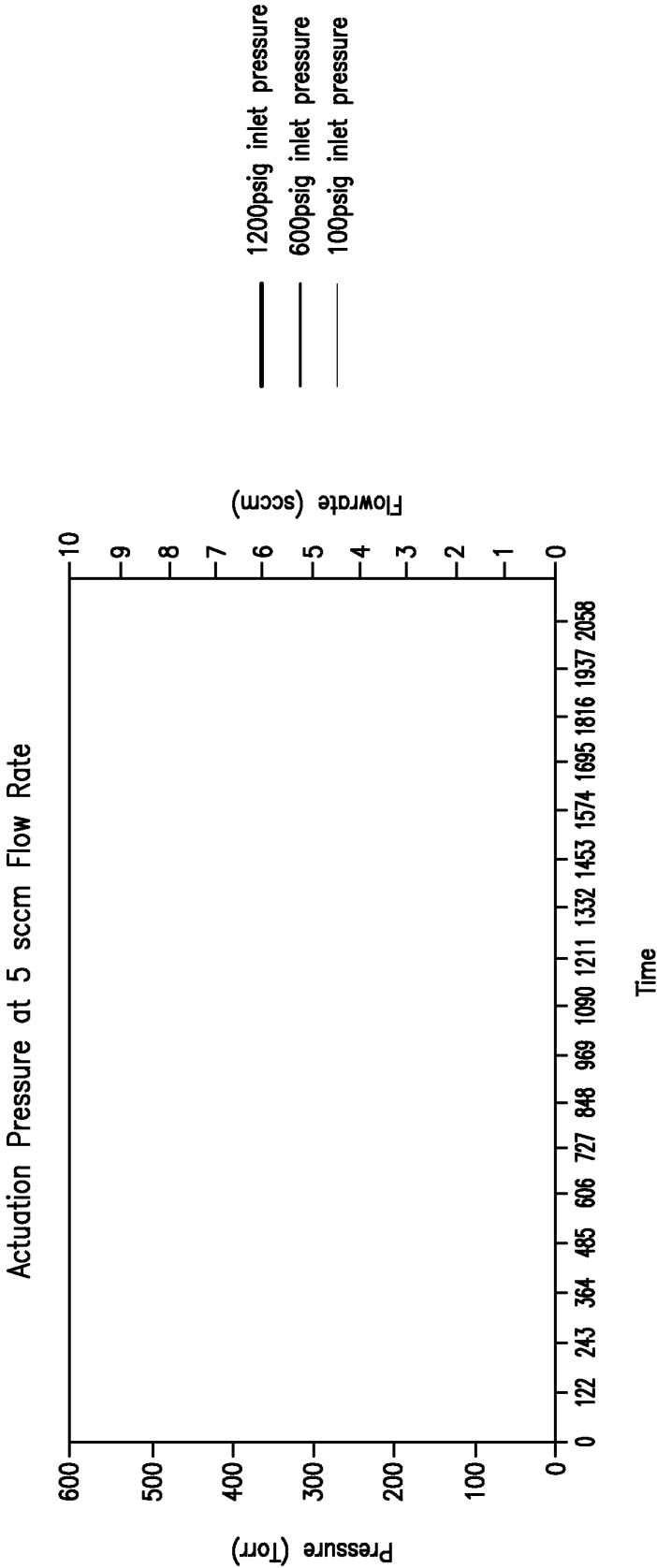
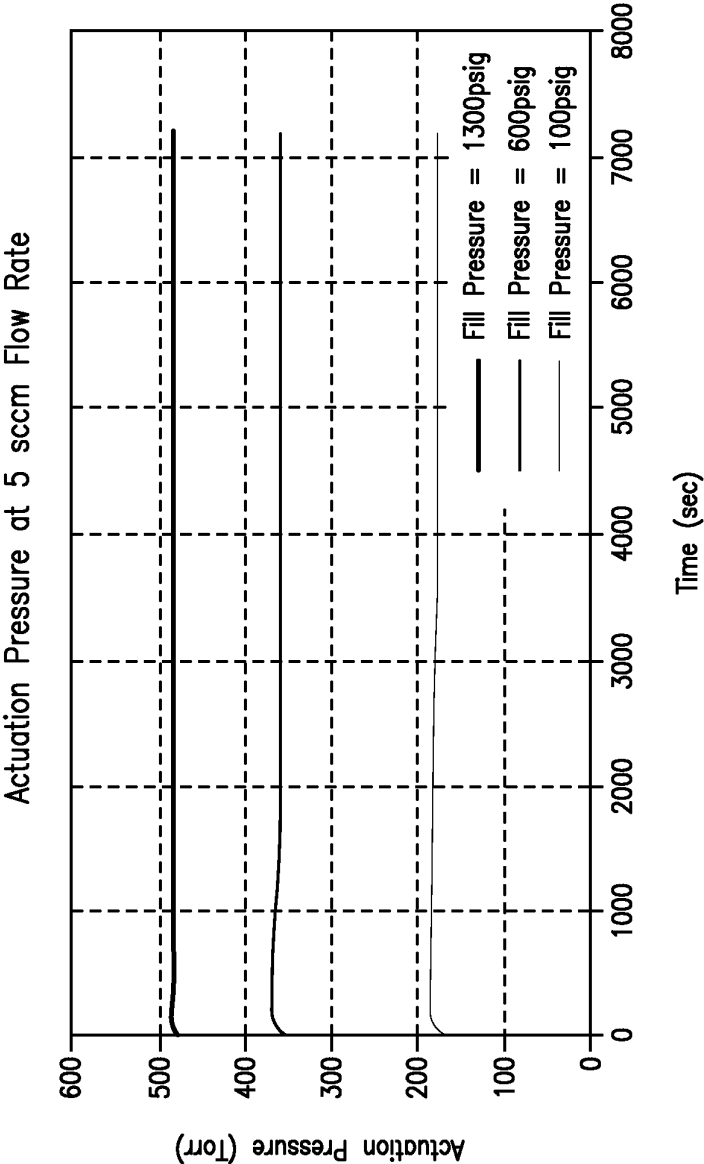


FIG. 4



- Test Results
 - Stable actuation pressure over range of fill pressures
 - Maintains sub-atmospheric behavior as cylinder is depleted
- Actuation pressure at 2 sccm versus time

FIG. 5

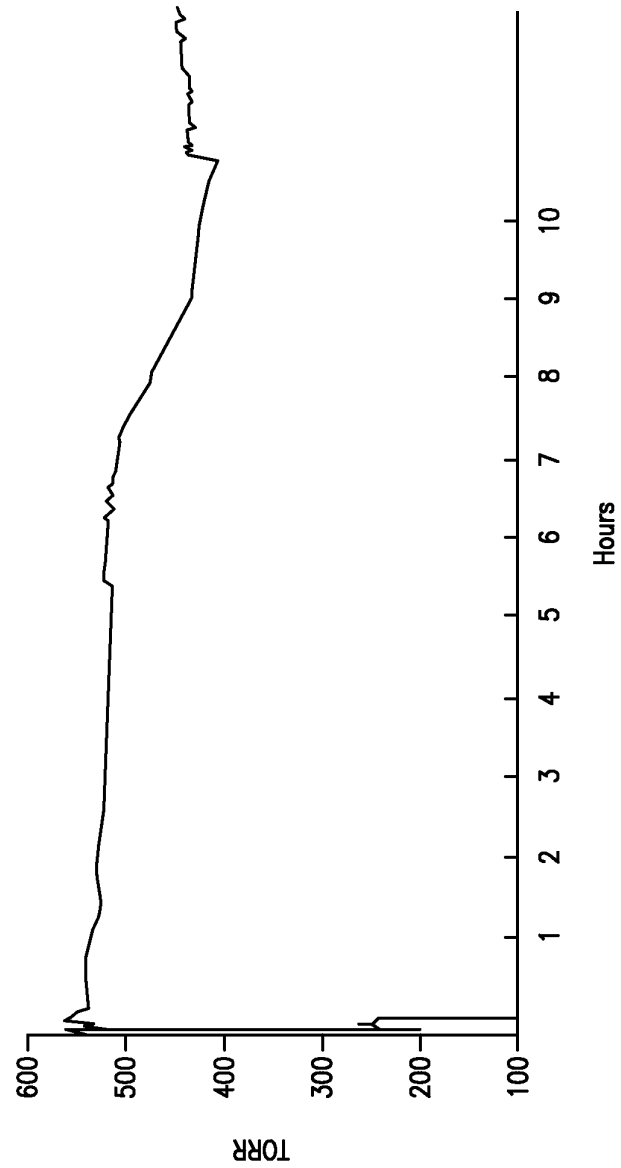


- Test Results
 - Stable actuation pressure over range of fill pressures
 - Maintains sub-atmospheric behavior as cylinder is depleted

Actuation pressure at 5 sccm versus time

FIG. 6

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Actuation pressure for standard pin/poppet seal at 5 sccm flow rate

FIG. 7