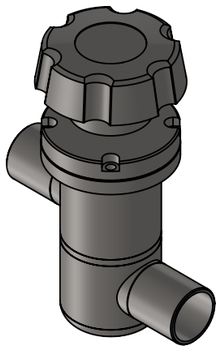
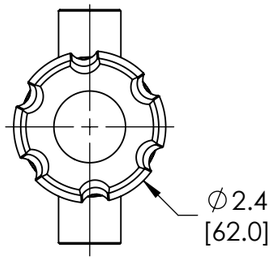
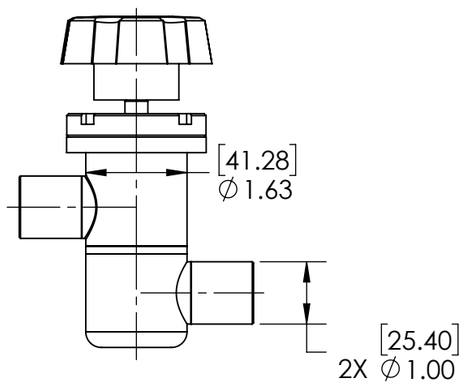
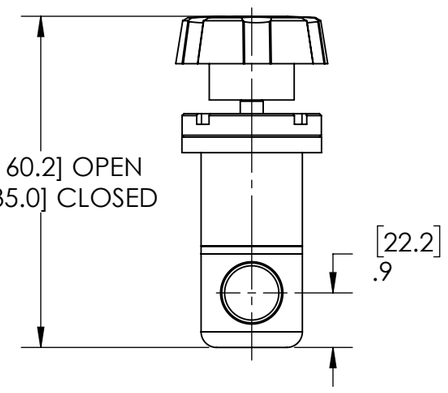
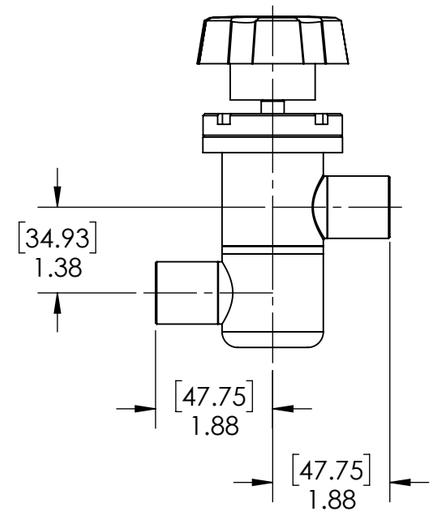




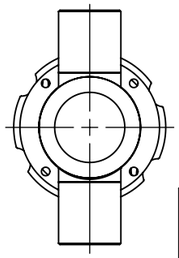




SPECIFICATIONS:
*PORT: 1"
*MATERIALS:
BODY: 304 SST, ELECTROPOLISHED
BELLOWS: WELDED AM-350 SST
BONNET SEAL: VITON
POPPET SEAL: VITON
OTHER MATERIALS AVAILABLE
ACTUATION: SELF-LUBRICATING BRONZE NUTS
WITH ACME THREADS
DIFFERENTIAL PRESSURE: MAXIMUM 20 PSIA ACROSS VALVE SEAT
MAXIMUM TEMPERATURE VITON SEALS:
SUSTAINED: ≤150°C [302°F]
INTERMITTENT: ≤ 204°C [399°F]
VACUUM RANGE: VITON BONNET SEAL: ≥ $1x10^{-9}$ TORR HIGH VACUUM
OPTIONS: FITTINGS AND O-RINGS

NOTES:
1. ALL WELDS TO BE VAC. TIGHT TO $2x10^{-10}$ MIN. SENSITIVITY.
2. DIMENSIONS IN [X.XX] ARE IN mm.



**PROPRIETARY AND CONFIDENTIAL**
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THERMIONICS LABORATORY INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THERMIONICS LABORATORY INC. IS PROHIBITED.

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ± N/A
ANGULAR: MACH ± BEND ± .5°
ONE PLACE DECIMAL ± .1
TWO PLACE DECIMAL ± .01
THREE PLACE DECIMAL ± .005
SURFACE FINISH 63 R.M.S.

FINISH:

DO NOT SCALE DRAWING | REVISION

**thermionics laboratory inc.**
**Hayward Ca. 94545**

| | NAME | SIGNATURE | DATE | | USED ON | NEXT ASSY. |
|---|---|---|---|---|---|---|
| DESIGN/ENG. | | | | | | GEN. USE |
| CHK'D | | | | | | |
| APPV'D | | | | | | |
| MFG | | | | | | |
| Q.A | | | | MATERIAL: | | |
| | | | | | | |
| | | | | WEIGHT: | | |

TITLE:
**INLINE VALVE,**
**MANUAL ACTUATION**

DWG NO. L-100-H | A3

SCALE:1:2.5 | SHEET 1 OF 1