

**Item Name: UHV Gate Valves**

The technical description and number of quantities required are given below:

**(a) UHV Gate Valve, Manual (Required quantity: 2)**

- Actuator: Manual with crank handle.
- Bakeout temperature: actuator  $\geq 60$  °C
- Bakeout temperature: housing  $\geq 150$  °C
- Housing: Stainless steel 304
- Nominal diameter: DN 63 CF
- Should have position indicator
- Pressure max.:  $\geq 1$  bar
- Minimum pressure:  $\leq 1 \times 10^{-9}$  mbar
- Service life  $\geq 10000$  cycle
- Tightness/leak rate: Valve seat  $\leq 1 \times 10^{-9}$  mbar l/s
- Tightness: Valve body :  $\leq 1 \times 10^{-9}$  mbar l/s

**(b) UHV Gate Valve, Pneumatic (Required quantity: 1)**

- Actuator: Pneumatic
- Bakeout temperature: actuator  $\geq 60$  °C
- Bakeout temperature: housing  $\geq 150$  °C
- Closing/opening time:  $\leq 1.5$  s
- Housing: Stainless steel 304
- Nominal diameter DN 63 CF
- Should have position indicator
- Pressure max.  $\geq 1$  bar
- Pressure min.  $\leq 5 \times 10^{-10}$  mbar
- Seal: Bonnet = metal, Gate: FKM/viton
- Service life:  $\geq 10000$  cycle
- Tightness/leak rate: Valve seat  $\leq 1 \times 10^{-9}$  mbar l/s
- Tightness: Valve body  $\leq 1 \times 10^{-9}$  mbar l/s