



**FR** = Full-range gauge  
**PI** = Pirani vacuum gauge  
**TP** = turbomolecular pump  
**RP** = roughing pump  
**TV** = pneumatic valve (turbo)  
**BV** = pneumatic valve (bypass)

**GV** = pneumatic valve (gate)  
**XT01.VVGS.1000** = pneumatic valve  
**XT01.VGF.1050** = HIE-ISOLDE vacuum gauge  
**NV** = needle valve  
**RV** = manual valve  
**MA** = manometer