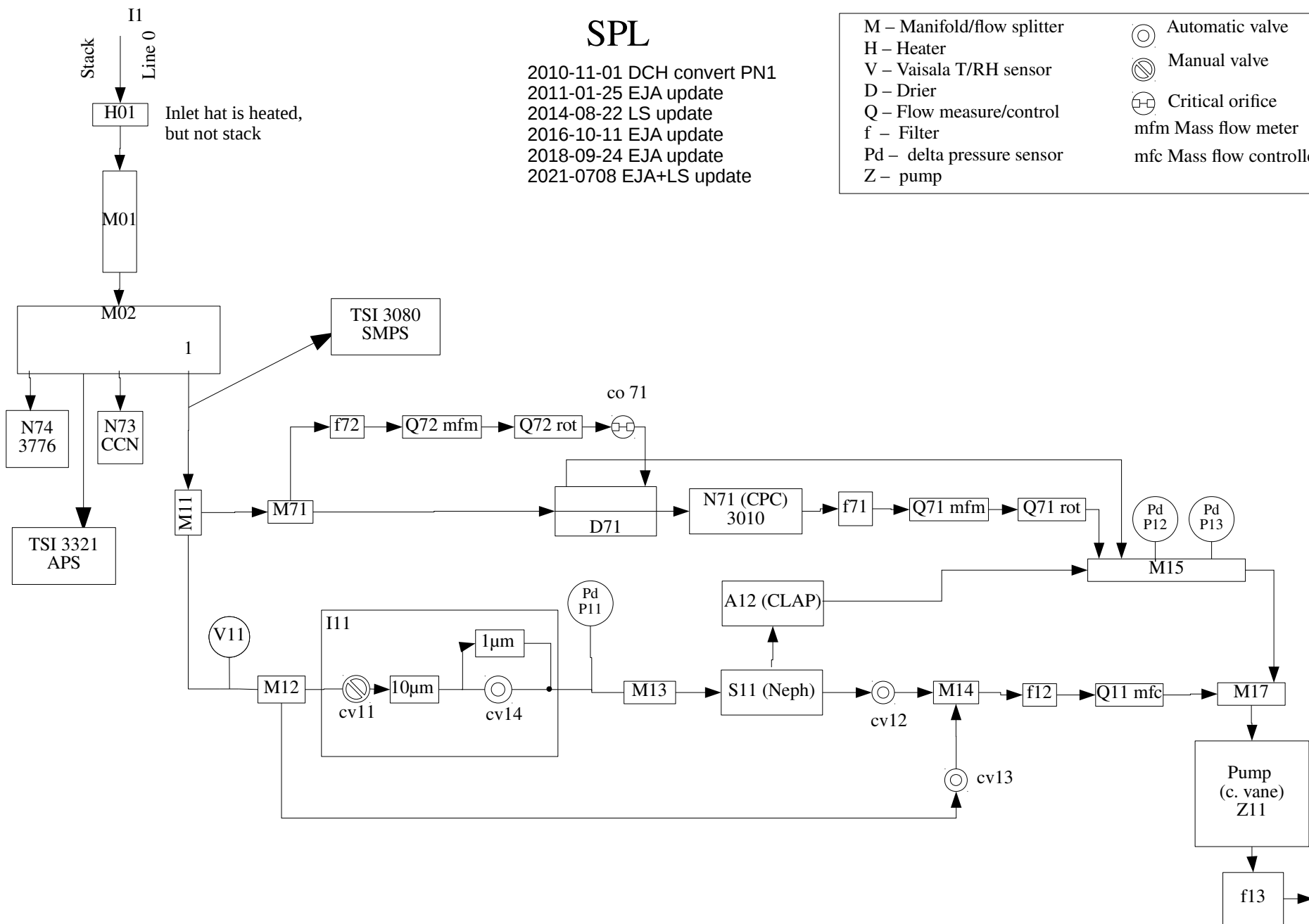


SPL

2010-11-01 DCH convert PN1
 2011-01-25 EJA update
 2014-08-22 LS update
 2016-10-11 EJA update
 2018-09-24 EJA update
 2021-07-08 EJA+LS update

M – Manifold/flow splitter
 H – Heater
 V – Vaisala T/RH sensor
 D – Drier
 Q – Flow measure/control
 f – Filter
 Pd – delta pressure sensor
 Z – pump

⊙ Automatic valve
 ⊗ Manual valve
 ⊕ Critical orifice
 mfm Mass flow meter
 mfc Mass flow controller



dP_neph_imp_hPa -> Pd_P11 (imp dP - meas'd by umac)
dP_spare2 -> Pd_P12 (sys vac - meas'd by umac)
" -> Pd_P13 (gauge on CN box)
P_refNeph -> P_S11 (neph pressure)
Q_analyzer -> Q_Q11 (MFC in imp box)
Q_CN -> Q_Q71 (CN flow, meas'd by MFM and rotameter in CN box)
Q_drier -> Q_Q72 (CN drier flow, meas'd by MFM and rotameter in CN box)
RH_Ambient -> U_V01 (lab rh - meas'd by PID)
RH_Inlet -> U_V51 (back of imp box)
RH_refInlet -> Uu_S11 (neph inlet)
RH_refNeph -> U_S11 (neph volume (calculated))
T_Ambient -> T_V01 (lab T - meas'd by PID)
T_Inlet -> T_V51 (back of imp box)
T_refInlet -> Tu_S11 (neph inlet)
T_refNeph -> T_S11 (neph volume (measured))

A11=CLAP
S11=neph
N71=3010
N72=n/a
N73=CCN
N74=3776

cv11>manual ball valve in impactor box
cv12=bypass solenoid#1
cv13=bypass solenoid#2
cv14=whitey electronic ball valve