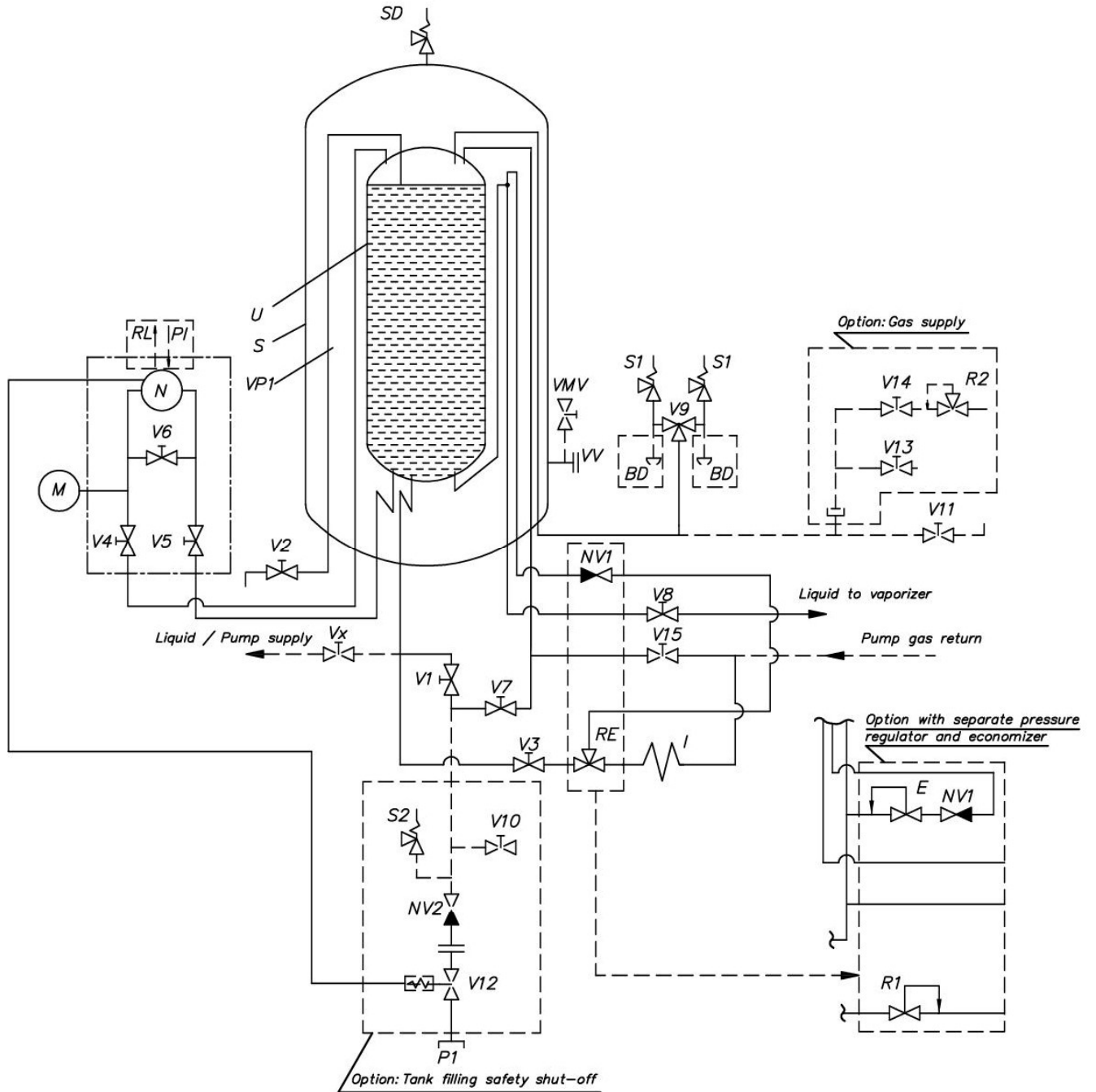


Vertical Bulk Tank for LOX, LIN, LAR

Flow Diagram



V1 Bottom liquid inlet/outlet
V2 Overflow
V3 Pressure build-up
V4 Manometer valve / Liquid level (-)
V5 Liquid level (+)
V6 Equalizer valve
V7 Top liquid inlet/ Gas outlet
V8 Liquid gas to product vaporizer
V9 Three way valve / Diverter valve
V10 Pressure relief valve (optional)
V11 Pressure relief valve (optional)
V12 Emergency shut down valve – overfill protection valve (optional)
V13 Gas discharge (optional)
V14 shut off valve (optional)
V15 Pump gas return (optional)
Vx Liquid outlet / Pump supply (optional)
VV Vacuum lock valve
VMV Vacuum measurement valve (optional)

NV1 Check valve
NV2 Check valve (optional)
I Auxiliary vaporizer
RE Integral pressure regulator / economizer
R1 Pressure regulator (optional)
R2 Pressure regulator (optional)
E Economizer (optional)
S1 Inner vessel safety valves
S2 Line safety valve (optional)
SD Safety disc
BD Bursting discs (optional)
M Manometer
N Liquid level indicator
RL, PI Remote level and / or pressure indicator (optional)
P1 Filling connection
U Inner vessel
S Outer jacket
VPI Vacuum–perlite insulation