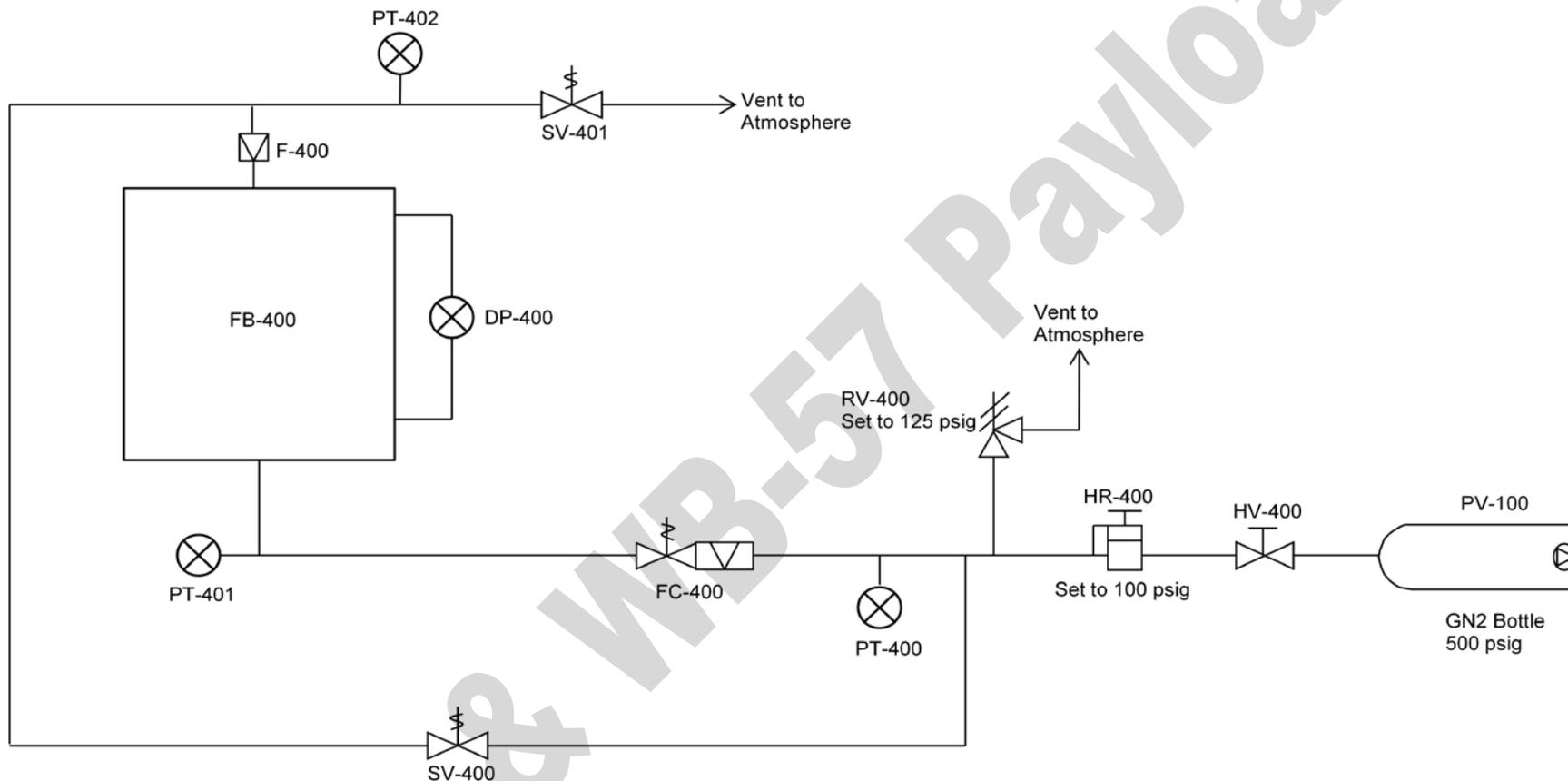


Figure 1 . Pressure System Schematics



Note: All Tubing is 1/4" A269 304L SS, 0.035" thickness and having MAWP > 1000 psi; No flex hose used in this application.

For Reference Purpose Only

Reference	Description	Manufacturer	Operating Temp °F	Service Fluid	Nominal Pressure psig	MOP psig	MAWP psig	Burst Pressure psig	Leak Pressure psig	Proof Pressure psig
PV-100	Metallic Pressure Vessel	Luxfer	65 to 95	N ₂ Gas	500	500	2000	7600	DOT Cert	DOT Cert
HV-400	Ball Valve	Hook	65 to 95	N ₂ Gas	500	500	1500	5000	1.0 x MOP	1.5 x MOP
HR-400	Regulator	Tescom	65 to 95	N ₂ Gas	500	500	1200	4600	1.0 x MOP	1.5 x MOP
RV-400	Relief Valve	Generate	65 to 95	N ₂ Gas	100	500	1800	7000	1.0 x MOP	1.5 x MOP
PT-400	Pressure Gauge	Cecomp	65 to 95	N ₂ Gas	100	125	1000	4000	1.0 x MOP	1.5 x MOP
PT-401	Pressure Transducer	FGP	65 to 95	N ₂ Gas	100	125	1200	4500	1.0 x MOP	1.5 x MOP
PT-402	Pressure Transducer	FGP	65 to 95	N ₂ Gas	100	125	1200	4500	1.0 x MOP	1.5 x MOP
FC-400	Flow Controller	Alicat	65 to 95	N ₂ Gas	100	125	400	1500	1.0 x MOP	1.5 x MOP
FB-400	Fluidized Bed	NASA	65 to 95	N ₂ Gas	100	125	600	2500	1.0 x MOP	1.5 x MOP
DP-400	Delta Pressure Transducer	Dwyer	65 to 95	N ₂ Gas	100	125	900	3400	1.0 x MOP	1.5 x MOP
F-400	Filter, Parker	Parker	65 to 95	N ₂ Gas	100	125	1000	4000	1.0 x MOP	1.5 x MOP
SV-400	Solenoid Valve	Parker	65 to 95	N ₂ Gas	100	125	1100	4350	1.0 x MOP	1.5 x MOP
SV-401	Solenoid Valve	Parker	65 to 95	N ₂ Gas	100	125	1100	4350	1.0 x MOP	1.5 x MOP

Note: All Tubing is ¼" A269 304L SS, 0.035" thickness and having MAWP > 1000 psi; No flex hose used in this application.

Nominal Pressure: The pressure at which the system operates at normal condition. The nominal pressure is established by the hardware developer and available through the pressure system schematics.

Maximum Operating Pressure (MOP): The maximum pressure at which the system or component could operate in a particular application. MOP includes the effects of temperature, transient peaks, vehicle acceleration, and relief valve tolerance. MOP is synonymous with "Maximum Expected Operating Pressure (MEOP)". The MOP is established by the hardware developer and available through the pressure system schematics.

Maximum Allowable Working Pressure (MAWP): The maximum pressure at which a component can continuously operate based on allowable stress values and functional capabilities. MAWP is synonymous with "Rated Pressure" and is typically available through the manufacturer's specification.

Burst Pressure: The burst pressure is the ultimate test pressure that the pressurized components rupture in a qualification test and is typically available through the manufacturer's specification.