PROJECT NAME	REPRESENTATIVE NAME	DRAWN BY	FLUID (LOX, LIN, LAR, LCD)
LOCATION	QUOTE NUMBER	PHONE NUMBER	SYSTEM PRESSURE



Rock Hill, SC 29730	www.beaconmedaeslab.com
Overview Drive, I	1.888.463.3427 - \

PROJECT NAME	REPRESENTATIVE NAME	DRAWN BY	FLUID (LOX, LIN, LAR, LCD)
LOCATION	QUOTE NUMBER	PHONE NUMBER	SYSTEM PRESSURE

VJ Piping Legend		
*	FIELD JOINT	
<b>&gt;&gt;</b>	CAP BAYONNNET	
K	VACUUM INSULATED CRYOGENIC MANUAL GLOBE VALVE	
*	BAYONNET	
1	VACUUM JACKETED END 1/2" M.NPT	
子0000000000000000000000000000000000000	VACUUM JACKETED FLEXIBLE HOSE, CGA 295 SWIVEL CONNECTION EACH END	
	VACUUM JACKETED FLEXIBLE HOSE, INLET: WELDED TO VJ PIPE OUTLET: CGA 295 SWIVEL	
1	KEEP COLD (PHASE SEPARATOR)	
T	FLANGE	

Non VJ Piping Legend		
E	THERMAL EXPANSION PRESSURE RELIEF VALVE	
olZ	SPRING LOADED CRYOGENIC CHECK VALVE	
K	EXTENDED STEM CRYOGENIC MANUAL GLOBE VALVE, BRONZE	
+	ADAPTOR, 1/2" M.NPT X 1/2" FLARE MALE BRASS	
T T	CANDY-CANE WITH THERMAL EXPANSION PRESSURE RELIEF VALVE	
۲' 	NON-VACUUM JACKETED FLEXIBLE HOSE CGA 295 SWIVEL CONNECTION EACH END	
	PHASE SEPARATOR	

# **Specifications**

#### **INNER LINE**

1/2" OUTSIDE DIAMETER TUBE X 0.035" WALL, ASTM A269, TYPE 304 STAINLESS STEEL, EXPANSION JOINTS AS REQUIRED

#### **OUTER JACKET**

2" OUTSIDE DIAMETER TUBE X 0.065" WALL, ASTM A269 TYPE 304 STAINLESS STEEL

#### INSULATION

MULTI-LAYER SUPER INSULATION (VACUUM JACKETED)

## **FACTORY PERFORMED LEAK TEST**

HELIUM LEAK TEST ON THE ENTIRE ASSEMBLY FOR MAX LEAK RATE OF 1 X 10-8 CC/SEC

#### FIELD PERFORMED LEAK TEST

THE INSTALLER SHALL PERFORM A FIELD PNEUMATIC LEAK TEST ON THE COMPLETE PIPING SYSTEM AT 110% OF THE DESIGN PRESSURE IN ACCORDANCE WITH ASME B31.3.

#### **DIMENSIONS**

ALL DIMENSIONS ARE TO CENTERLINE OF PIPE UNLESS NOTED OTHERWISE

### **DESIGN CODE**

PER ASME B31.3 FOR PRESSURE PIPING

#### **MATERIAL CERTIFICATION**

MATERIAL CERTIFICATES REQUIRED FOR INNER PRESSURE PIPING

# **Non Piping Legend** INDICATES WALL PENETRATION CRYOGENIC LIQUID CYLINDER LIQUID NITROGEN OPEN FLASK DEWAR

