Rev	Date	Description	Init
A			
B			
C			

Legend:

- Cold valve
- Warm valve
- Hand valve
- Safety valve
- Burst disc
- Flow meter
- Temperature sensor
- Pressure transmitter
- Pressure indicator
- Level transmitter
- Heater
- Check valve
- Non-insulated pipeline
- Finned pipeline
- Vacuum insulated pipeline
- Heat exchanger

Codes of instrumentation:

X_ _ - module (VBGI / VB1 / VB2 / VB3 / VB4 / VB5 VBT / VBE)

_X_ - number of line (1-9)

_ _X - number of device

Numbers of lines:

Valveboxes:

1 Supercritical He supply line
1 2 K supply line
2 He return line
1 Intercept line
3 Thermal shield supply line
4 Thermal shield return line
5 Recovery line

Auxiliary lines:

5 Recovery line
6 Purge in line
7 Purge return line
8 Safety valves relief line
9 Sealing gas line

Transfer line:

- Supercritical He supply line (5 K, 4 bara, DN25)
- He return line (3-5 K, 25-30 mbara, DN150)
- Thermal shield supply line (40 K, 13 bara, DN20)
- Thermal shield return line (80 K, 13 bara, DN20)

Valveboxes:

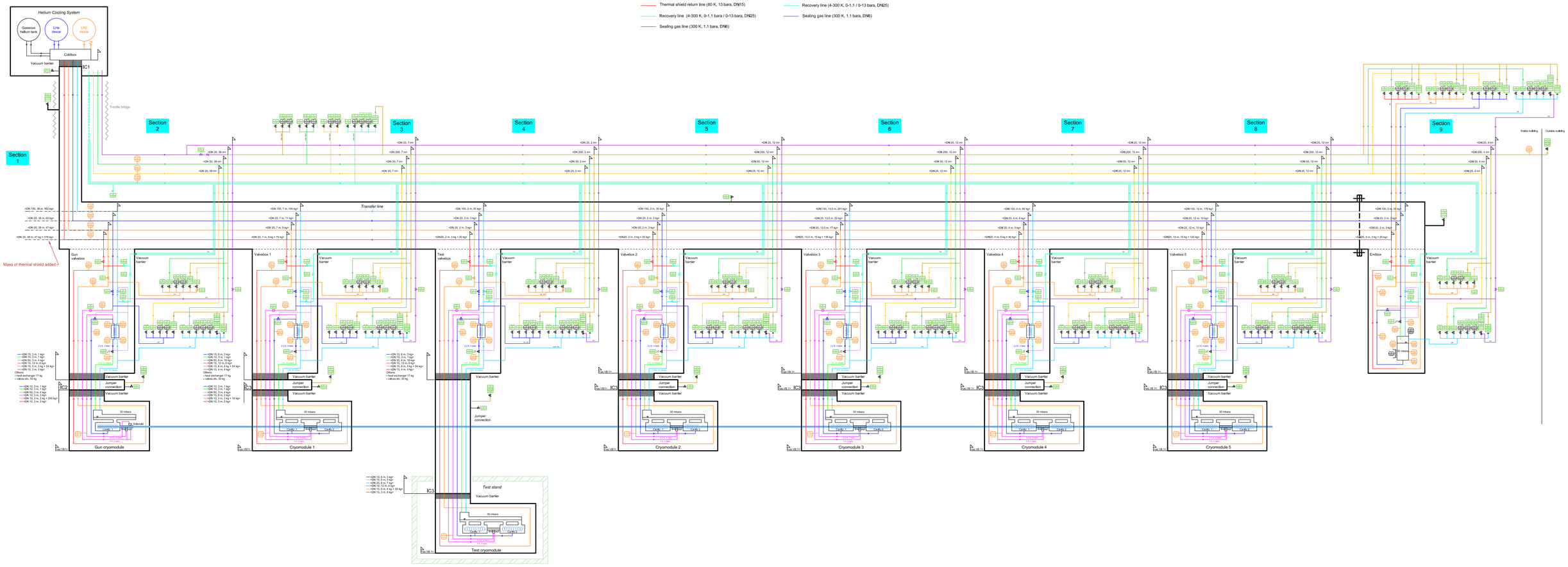
- Supercritical He supply line (5 K, 4 bara, DN15)
- 2 K supply line (2 K, 30 mbara, DN15)
- He return line (3-5 K, 25-30 mbara, DN50)
- Intercept line (5 K, 4 bara, DN15)
- Thermal shield supply line (40 K, 13 bara, DN15)
- Thermal shield return line (80 K, 13 bara, DN15)
- Recovery line (4-300 K, 0-1,1 bara / 0-13 bara, DN25)
- Sealing gas line (300 K, 1,1 bara, DN6)

Endbox:

- Supercritical He supply line (5 K, 4 bara, DN25)
- 2 K supply line (2 K, 30 mbara, DN15)
- He return line (3-5 K, 25-30 mbara, DN80)
- Thermal shield supply line (40 K, 13 bara, DN20)
- Thermal shield return line (80 K, 13 bara, DN20)
- Recovery line (4-300 K, 0-1,1 / 0-13 bara, DN25)
- Sealing gas line (300 K, 1,1 bara, DN6)

Auxiliary lines:

- Recovery line (4-300 K, 0-1,1 / 0-13 bara, DN80)
- Purge in line (300 K, 4 / 13 bara, DN25)
- Purge return line (300 K, <1,1 bara, DN50)
- Safety valves relief line (4-300 K, 1,1 bara, DN200)
- Sealing gas line (300 K, 1,1 bara, DN25)



	Name:	Date:	Signature:
Designed by:	Grzegorz Michalski	15.05.2021	
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Drawing no:

Qty: 1

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Scale: N/A

Drawing no: PolFEL.01.00

Size: A0

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