

In-cave Piping Plans

1) LN2 Fill Line(Status: Approved by FNAL, All parts were ordered and delivered)

Docdb entry: <https://seaquest-docdb.fnal.gov/cgi-bin/sso/ShowDocument?docid=9806>

New_Version: [LN2 Fill_RevisedSchematic.pdf](#)

Old_version: [LN2Fill-Schematic.pdf](#)

Vendor	Part Numbers	Related Documentation
Swagelok	SS-T8-S-049-20, SS-T6-S-035-20	SwagelokTubing-Documentation.pdf
	SS-810-6-6	Swagelok-TubeFitting-Documentation.pdf
	SS-8-VCR-3-8MTW (Qty 2), SS-8-VCR-2-GR, SS-8-VCR-1 (Qty 2) SS-8-VCR-3-6MTW SS-8-VCR-4 SS-8-VCR-2-VS	Swagelok-VCR-Documentation.pdf
IdealVac	P1011415 P103472	Recommended by Jake Kitner

Cryoeпоxy (Recommended by Rick Tesarek): <https://www.scientificinstruments.com/product/stycast-2850ft-catalyst-9/>

Safety Documentation: [Catalyst 9.pdf](#), [Stycast 2850 FT.pdf](#)

Status: Purchase Completed [Sales Order - 100687065.pdf](#)

Older documentation from McMaster: [Certificate_of_Compliance-McMaster-Carr-LN2Fill.pdf](#)

2) gN2 Relief line

Docdb entry: <https://seaquest-docdb.fnal.gov/cgi-bin/sso/ShowDocument?docid=9868>

[gN2Relief-Schematic.pdf](#)

Vendor	Part Numbers	Related Documentation
McMaster-Carr	2698K33, 48805K716, 5793K15, 45525K649, 2698K14, 4830K265, 44685K15, 4464K157, 2698K19, 5793K17	Certificate_of_Compliance-McMaster-Carr-gN2Relief.pdf
Oseco	1.5 NPT Disk Holder	RuptureDisks_OSECO-FM030222-01.pdf
Mackvacuum	MKKF1634MNPT	Documentation will be delayed from the vendor

3) Helium Magnet Return line hoses (Status: Approved by FNAL 03/30/2022 > Purchase Request sent on 03/31/2022)

Docdb entry: <https://seaquest-docdb.fnal.gov/cgi-bin/sso/ShowDocument?docid=9873>

[gHe_Magnet_Return_Schematic.pdf](#)

Vendor	Part Numbers	Related Documentation
McMaster-Carr	5793K15, 4464K157, 2698K19, 2698K18, 5793K15	Certificate_of_Compliance_McMaster-Carr_gHeMagnetReturnLineHoses.pdf
IdealVac	P103107, P101604, P101605, P101969	EVAC_MaterialSpecs_Documentation.pdf
Kurt J. Lesker	QF40-150-SRV	O-ring (no need for a documentation)

4) Helium safety Relief manifold (Status: Approved by FNAL > Fabrication in progress)

Docdb entry: <https://seaquest-docdb.fnal.gov/cgi-bin/sso/ShowDocument?docid=9879>

5) Helium Safety Relief hoses/fitting from Magnet (Status: Approved by FNAL , All parts were ordered and delivered)

Docdb entry: <https://seaquest-docdb.fnal.gov/cgi-bin/sso/ShowDocument?docid=9876>

[HeliumsafetyReliefHosesMagnet_Schematic.pdf](#)

Vendor	Part Numbers	Related Documentation
McMaster-Carr	5793K68, 5793T39, 45525K519	Certificate_of_Compliance_McMasterCarr-gHeSafetyReliefHosesFittings.pdf
IdealVac	P10611	EVAC_MaterialSpecs_Documentation.pdf
Kurt J. Lesker	QF40-150-SRV	O-ring (no need for a documentation)

6) Risers being made at UVA(Fabricated, on the way to Fermilab)

Need a docdb entry

Vendors that are not providing ASME products

Vendor	Contacted/Replied date	Comments
IdealVac	03 Mar 2022	"rated for vacuum and not pressure and our stainless steel and we don't have ASME certifications"
Kurt J. Lesker	11 Feb 2022	Not ASME ~ over the phone
Mackvacuum	02 Mar 2022	Only some items have documentation