

Name	Description	Make/Buy	Quantity	Drawing
Cherenkov Detector				
Cherenkov detector parts				
Cradle Bracket	Welded onto the outside of cherenkov detector	Make	2	YES
Lifting Lug Rib	member that provides stability for crane lifting lugs	Make	2	YES (JLAB)
Gas Port Flange	Gas port that gets welded onto main vessel cylinder	Add O-ring to purchased item	1	YES
Gas Port Plate	Gas port blank off	Make	1	YES
Lifting Lug	Welded onto the outside of cherenkov detector used to lift detector	Make	4	YES
Main Vessel Cylinder	Main body of the cherenkov detector	Make	1	YES
Main Vessel Flange	Flange that gets welded onto main vessel cylinder	Make	2	YES
Quartz Holder	Holds Quartz window against the quartz window sleeve	Make	4	YES
Quartz Window	Quartz window	Purchased separately	4	YES (Hardin Optical)
Quartz Window Sleeve	Main housing for PMT	Make	2	YES
Quartz Window Sleeve Long	Main housing for PMT	Make	2	YES
Support Disk	Support Disk inside of main vessel cylinder	Make	2	YES
Support Ring	Support Ring which lies inside of main vessel cylinder	Make	1	YES
Window	Window (before hydroforming)	Make	3	YES
Window Clamp	Clamps hydroformed windows to main vessel flange	Make	2	YES
Hydroforming Pieces				
Parts needed for hydroforming				
Hydroforming Clamp	Clamps windows onto hydroforming plate when hydroforming	Make	1	YES
Hydroforming Plate	Plate used to hydroform the windows for the cherenkov detector, also used to blank off detector when vacuum testing	Make	1	YES
Vacuum blank offs				
Blank off flanges for the vacuum test				
Quartz Window Blank off	Blank off that replaces quartz window and quartz holder when vacuum testing	Make	4	YES
Window Blank off	Blank off that replaces one window when vacuum testing	Make	1	YES
O-rings				
Orings for the detector				
AS158-165 Viton O-ring	O-ring for gas port flange	Buy	1	NO
AS158-166 Viton O-ring	Poring for quartz window sleeve/quartz window sleeve long	Buy	4	NO
Large Custom O-ring	Custom 12.7mm diameter oring with 1751mm ID, seals window to main vessel flange, also used on hydroforming plate	Buy	2	NO
Fasteners				
Fasteners for the detector				
3/4"-10 UNC 316 SS Bolts	Bolts to clamp window clamp to main vessel flange	Buy	260	NO
3/4"-10 UNC Silicon Bronze Nuts	Nuts for the bolts to clamp window clamp to main vessel flange	Buy	260	NO
316 SS washers	Washers for the bolts to clamp window clamp to main vessel flange	Buy	260	NO
316 SS washers	Washers for the bolts to clamp gas port plate to gas port flange	Buy	8	NO
5/16-18 UNC SS Bolts	Bolts quartz holder to quartz window sleeve/quartz window sleeve long	Buy	32	NO
7/16"-14 UNC 316 SS Bolts	Bolts to clamp gas port plate to gas port flange	Buy	8	NO
7/16"-14 UNC Silicon Bronze Nuts	Nuts for the bolts to clamp gas port plate to gas port flange	Buy	8	NO