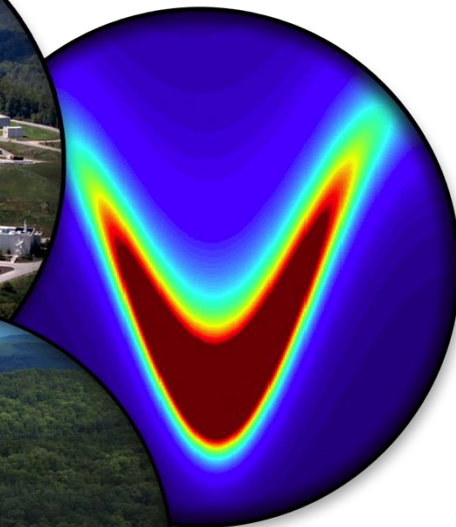


SAMPLE HOLDERS FOR POWDERS



HB2a Instrument Team

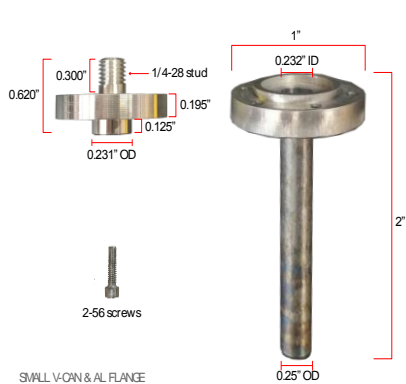
High Flux Isotope Reactor

August 2016



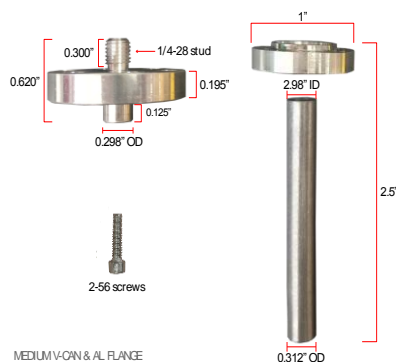
TYPES OF POWDER CANS

Vanadium Cans with Aluminum Flange and Lids, SS or Al screws [Measurements at T<300K]
 (V-can is glued to Al flange using low temperature Stycast epoxy)



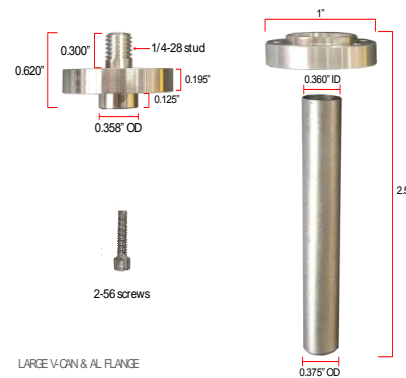
SMALL V-CAN & AL FLANGE

SMALL



MEDIUM V-CAN & AL FLANGE

MEDIUM

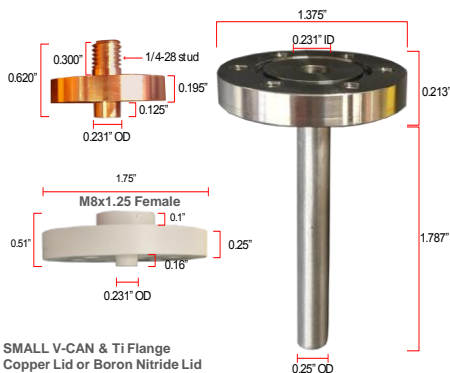


LARGE V-CAN & AL FLANGE

LARGE

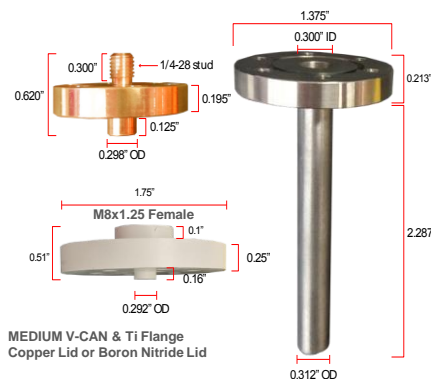
Vanadium Cans with Titanium Flange and Copper (SS screws) or Boron-Nitride Lids (Molybdenum screws)

[Cu Lid: Measurements at T<800K]
 [BN Lid: Measurements at T<1200C]



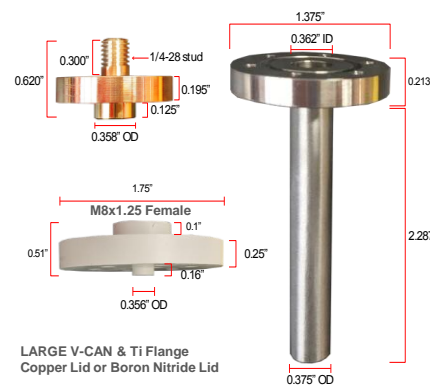
SMALL V-CAN & Ti Flange
 Copper Lid or Boron Nitride Lid

SMALL



MEDIUM V-CAN & Ti Flange
 Copper Lid or Boron Nitride Lid

MEDIUM



LARGE V-CAN & Ti Flange
 Copper Lid or Boron Nitride Lid

LARGE

TYPES OF POWDER CANS

Aluminum Cans with Aluminum Flange and Lids, SS or Al screws [Measurements at T<300K]



Size	Length (L)	Inner Diameter (ID)	Lid Diameter (D)	Screws	Lid thread size
Xsmall	2"	0.188"	0.75"	4-40 UNC	1/4-28
Small	2"	0.250"	0.75"	4-40 UNC	1/4-28
Medium	2.5"	0.345"	0.75"	4-40 UNC	1/4-28
Large	3"	0.600"	1.0"	4-40 UNC	1/4-28

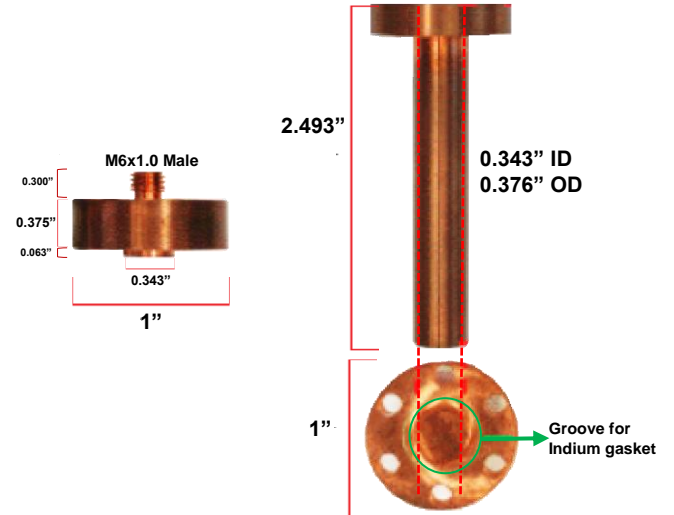
SPECIALTY SAMPLE HOLDERS

Aluminum Annular Cans [Measurements at T<300K]



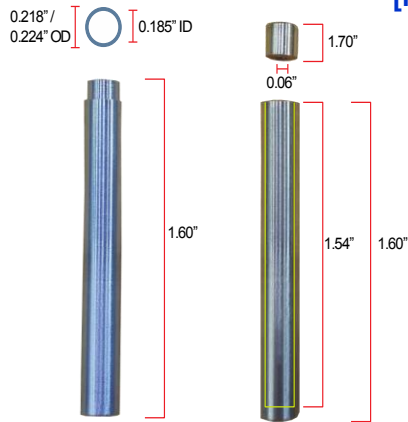
Copper Cans with Copper Lid

[Measurements in ³He and Dilution Insert T<300K]



Aluminum Can for Gas pressure Cell

[Measurements at T<300K]



Quartz glass for ILL Air Furnace

[Measurements at T<1200C]

