



# Instrument Panel Hole Sizes



**By John DeRosa**

[john@derosaweb.com](mailto:john@derosaweb.com)

<http://aviation.derosaweb.net>

**Updated**

**November 17, 2023**

# PLEASE NOTE

This document may have been updated with new information, changes, or corrections.

Be sure to visit my presentation web site and download the latest version of this document. It could make an important difference to you!

<http://aviation.derosaweb.net/presentations>

Thank you, John OHM Ω



# Common Instrument Hole Sizes & Conversions

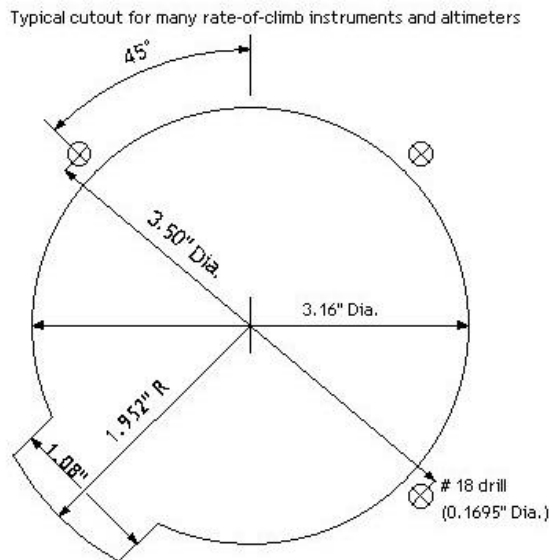
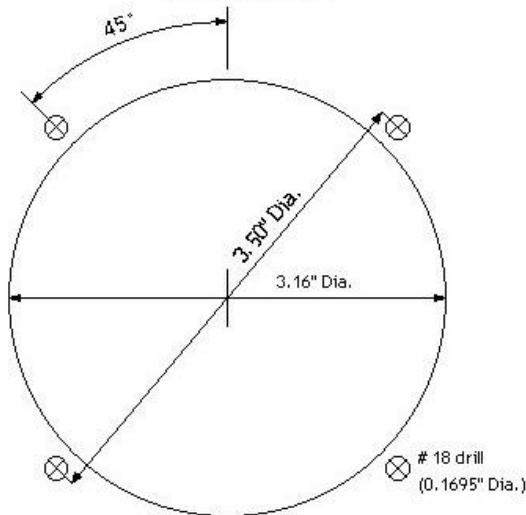


Common <u>Non-Metric</u> Sized Instrument Holes	Closest Metric Dimension (over/under size)	Common <u>Metric</u> Sized Instrument Holes	Closest Non-Metric Dimension (over/under size)
2-1/4" (2.25")	57mm = 2.24" 58mm = 2.28"	57mm	2-7/32" = 56.36mm 2-1/4" = 57.15mm
3-1/8" (3.125")	79mm = 3.11" 80mm = 3.15"	80mm	3-1/8" = 79.375mm 3-5/32" = 80.17mm

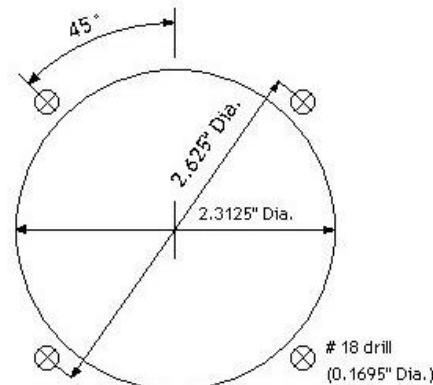


# Fractional Inch Instrument Hole Sizes Templates

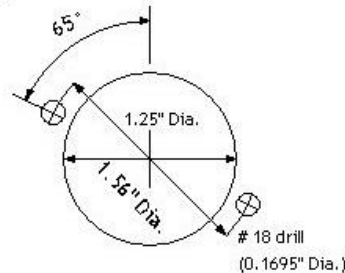
## Cutout for 3-1/8" Instruments



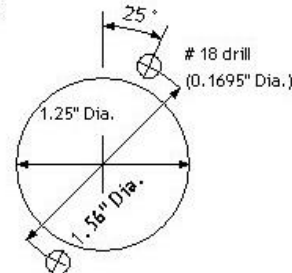
## Cutout for 2-1/4" Instruments



### Cutout for 1 1/4" Mechanical Instrument Type C

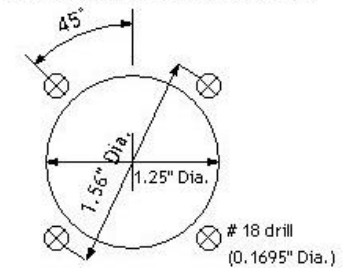


### Cutout for 1 1/4" Mechanical Instrument Type D

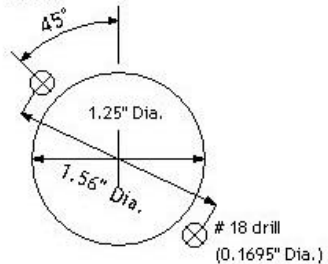


## Cutout for 1-1/4" Instruments

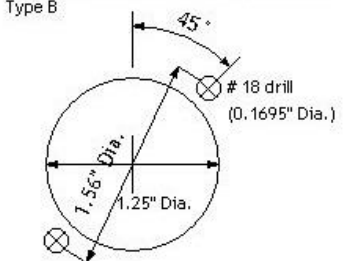
### Cutout for 1 1/4" Electronic Instrument



### Cutout for 1 1/4" Mechanical Instrument Type A

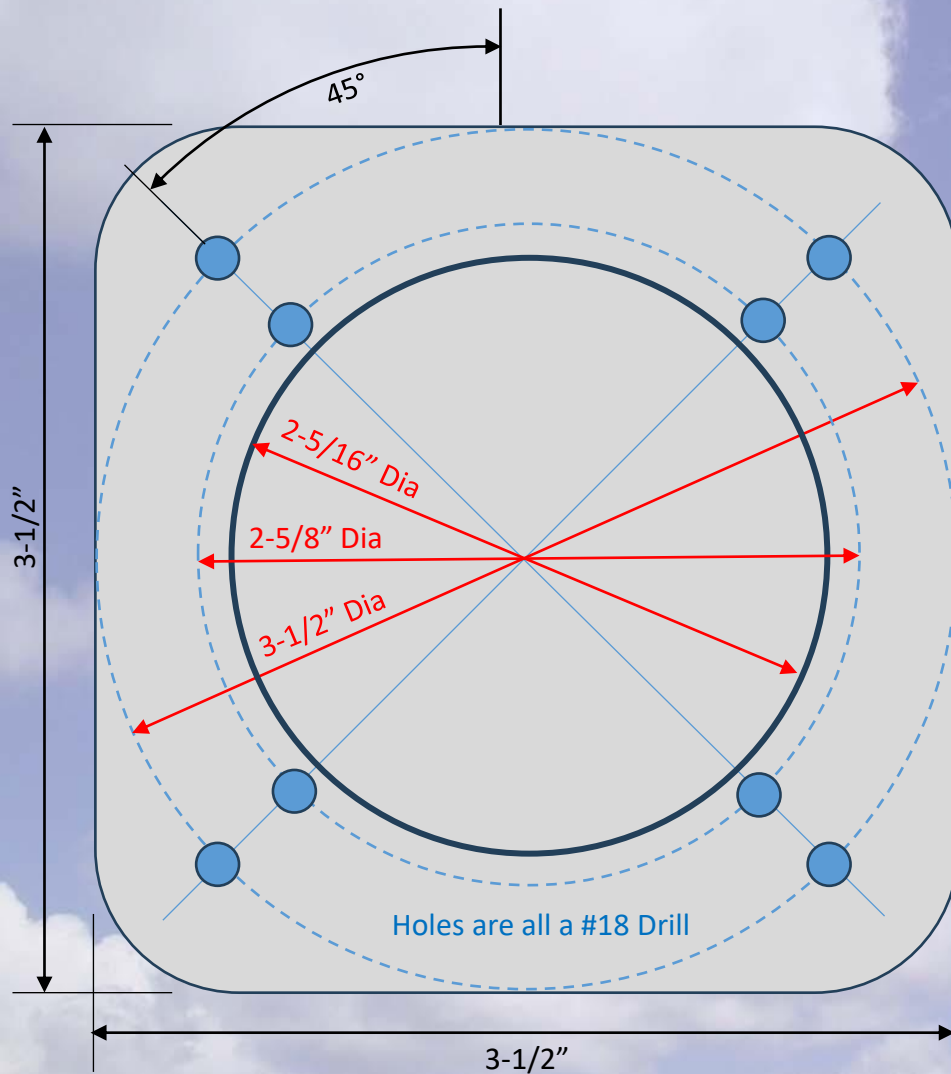


### Cutout for 1 1/4" Mechanical Instrument Type B

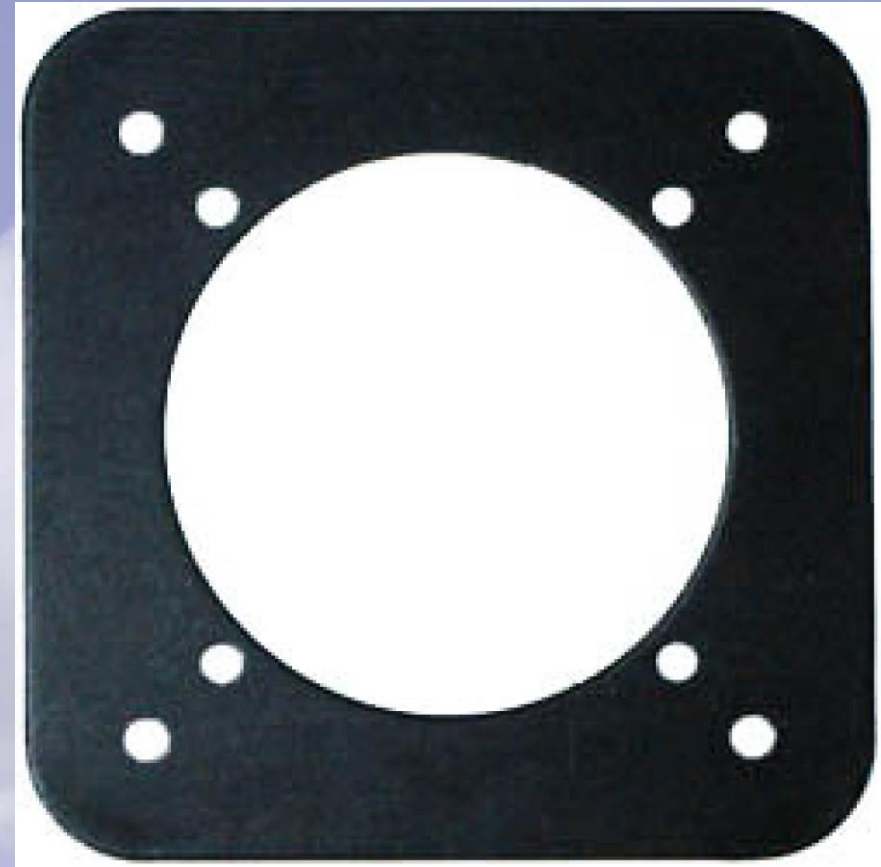




# 3-1/8" to 2-1/4" Instrument Reducer Plate (will also work with a metric panel)

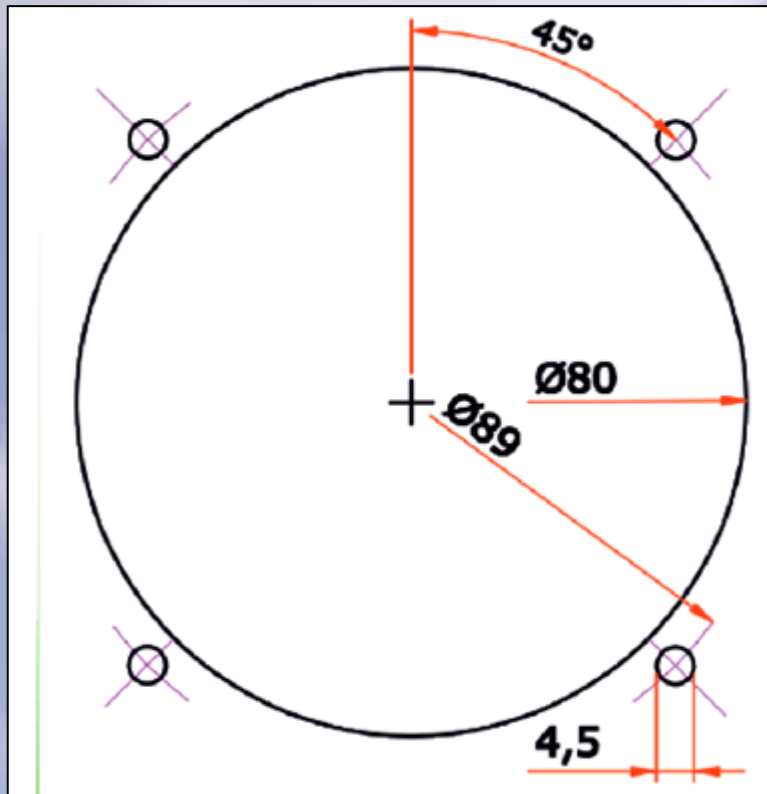


NOTE: Drawing not to scale

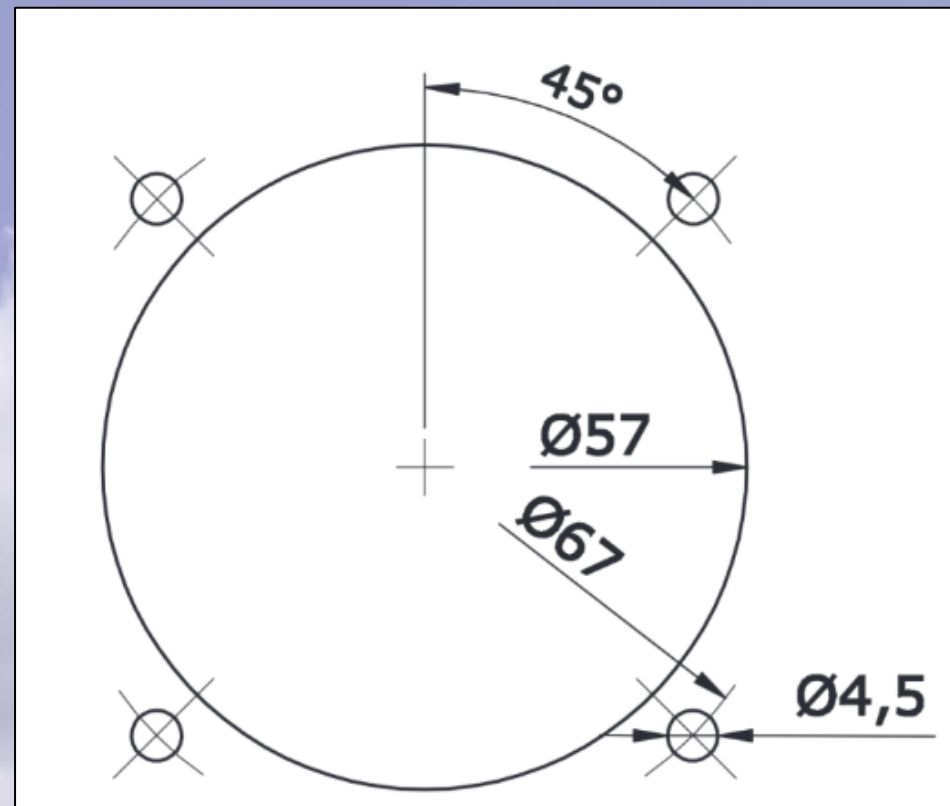


# Metric Instrument Hole Sizes Templates

80mm



57mm



Source: <https://www.winter-instruments.de>

# See My Other Presentations

- Glider Electrical Wiring
- Transceiver Troubleshooting
- Oxygen Systems
- Working with Glider Air Lines
- Sailplane Wiring
- Trailer Wiring & LED Lights
- Pilot Relief Systems
- Battery Testing
- Spar Alignment Tool
- L'Hotellier Fittings
- Carbon Fiber Panels
- IGC Filename Decoding
- Blanik L-23 Strut Work
- Survival & Bailout Kits
- Removing Painted Contest IDs
- Instrument Knob Extensions

<http://aviation.derosaweb.net/presentations>

Let me know of any comments!  
[jhderosa@yahoo.com](mailto:jhderosa@yahoo.com)