NEXT GENERATION PROTECTION
For Your Passengers, Cargo, Fleet, Aircraft, Investment, and Life

PITOTSHIELD V2™ SMARTCOVER™ SAFETY PITOT COVERS
SPECIFICATION SHEET (details on reverse)

The pitot tube is arguably the most vulnerable component of the Air Data System of turbine aircraft, and protecting it is a challenge. Pitot covers must be custom fit. Pitot covers must be heat resistant and removed prior to system power-up. Pitot covers must be highly visible. There must be no disincentive for pilots or ground-personnel to cover pitot tubes for fear of them not being uncovered prior to takeoff. For over a century these needs have continued unresolved until now. DeGroff Aviation Technologies has developed the PitotShield V2™- the first Safety Pitot Cover that addresses these long-standing issues involving the Air Data System protection.

- Provides the features requested from numerous airlines/MROs.
- Systems Safety Engineered design protects the pitot tube from spiders, wasps, dirt, sand and other contaminants.
- Designed specifically for Turbine/Transport aircraft with automatic pitot tube heat.
- Save estimated $50,000 to $500,000 per year in maintenance costs.*
- Will not melt and ruin a hot pitot tube during power-up for maintenance or power-up prior to take-off.
- Disengages and falls away harmlessly after power-up. (Aircraft with auto pitot heat)
- Disengages **BEFORE** the aircraft reaches the taxiway or runway and without pitot tube damage.
- **UNIVERSAL FIT. ONE SIZE** fits nearly all pitot tubes. Additional sizes for special pitot tubes.
- Easily installed/Removed by hand or, for out-of-reach pitot tubes, using our patented install device, eliminating the need for ladders,
- Unique feature: actually tightens up on the pitot tube if disturbed by wind or prop/jet-blast.
- No fabric to wear out and unravel or fibers to shed and contaminate the pitot tube.
- Impervious to solvents, avgas, and jet fuel.
- REMOVE BEFORE FLIGHT (RBF) Streamer Options: Red SAE/NAS Standard or Proprietary High-Visability International Orange w/Night-Reflective Accent.

* Fleet Airline/IATA Data-due to replacement of burned element/contamination in maintenance of each one hundred aircraft.

Scan For Active-Release Videos

Scan For PSV2 Web Page

WHY PITOTSHIELD V2™ SMARTCOVER™?

- **SMART-PREVENTS FOULED PITOT TUBES IN MAINTENANCE** Auto-Releases 2 to 5 Minutes after Pitot Heat Activation

- **HEAT-RESISTANT** Made specifically for auto-heated pitot tubes

- **UNIVERSAL PROTECTION** One size fits nearly every aircraft

- **THE NEW STANDARD IN PITOT TUBE PROTECTION**

Specifications on Reverse

PitotShield V2™ Spec Sheet

Body   77TBU, 77TBL   77TBS
- Length...   5.2 in (13.2 cm)   4.23 in (10.7 cm)
- Diameter. 2.25 in (5.7 cm)   2.25 in (5.7 cm
- Weight.... 4.25 oz (120 g)   3.5 oz   (99 g)

DAT p/n 77TB*4701 **(ORANGE RBF)**
DAT p/n 77TB*64   **(NAS RED RBF)**

PitotShield™ V2
With SmartCover™ Technology
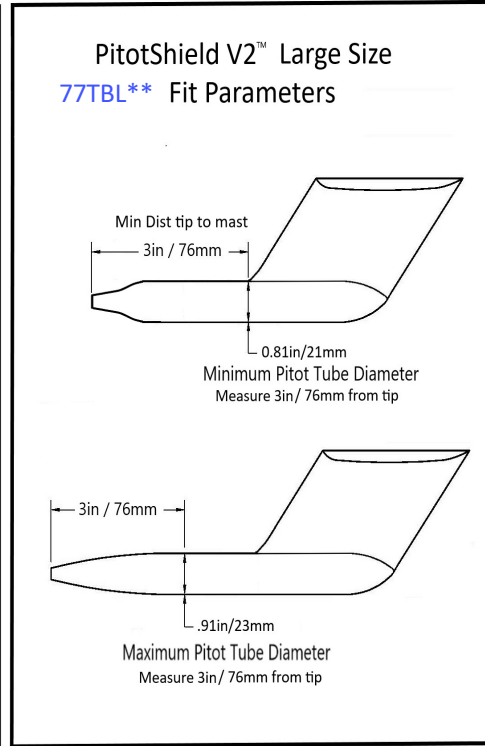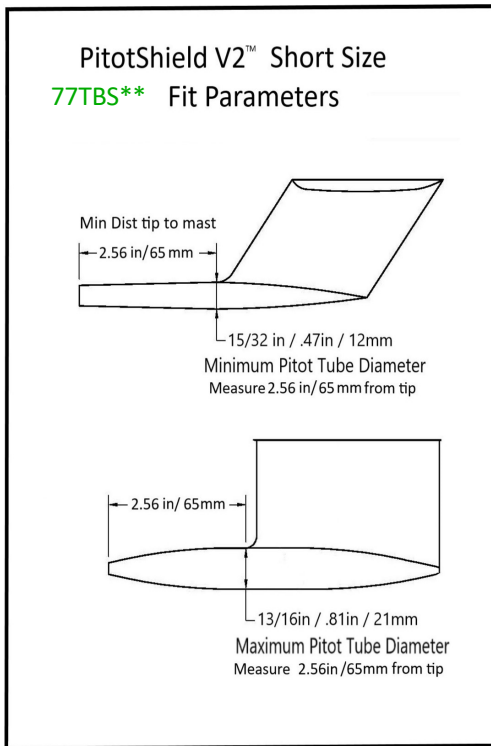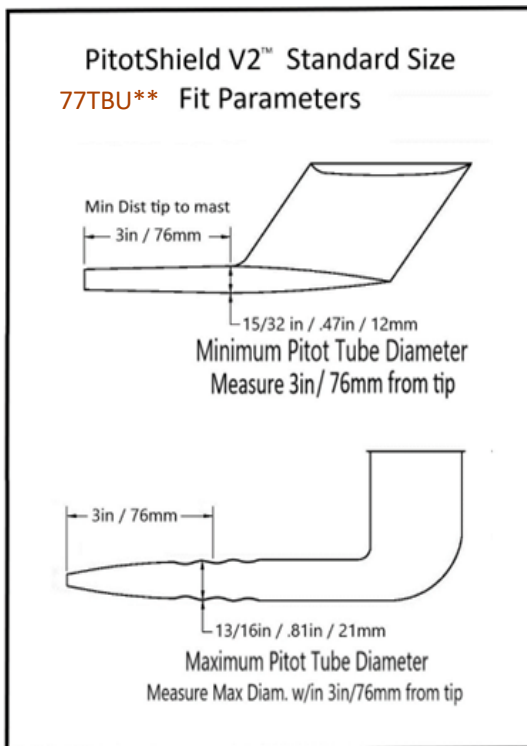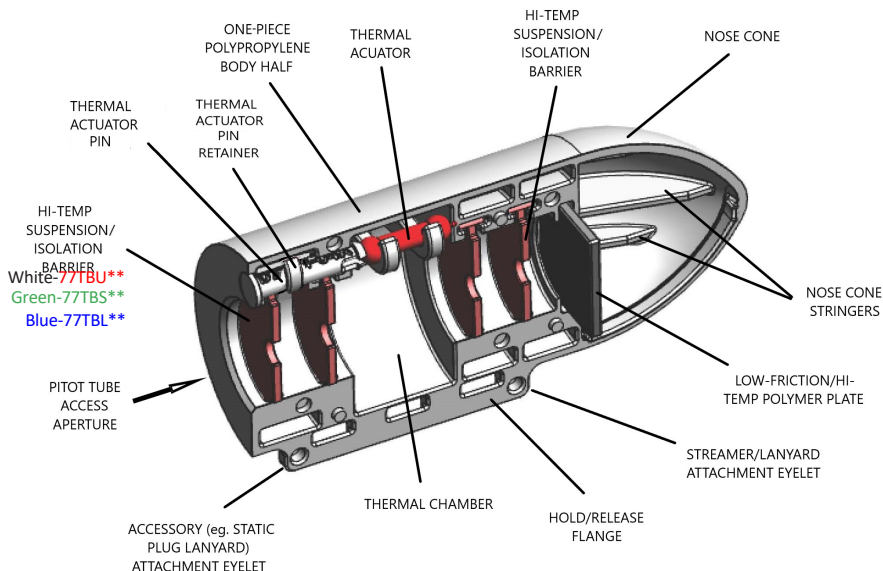
Body Materials - Body Contains NO METAL
- Polypropylene (BASF PP1200) Laser Sintered
- Only Hi-Temp Silicone Contacts Pitot Tube Surface
- PTFE Polymer Protects Tip of Pitot Tube
- Thermal Actuator: Silica, Water-soluble hydrocarbon, Reactive Temp: 135˚F/57˚C
- Operational Temp -40˚ F/-40˚C to 130˚ F/54˚ C
- Activation Temp Tested -4˚F/-20˚C to 130˚F/54˚C

RBF Streamer Options

- **Red SAE/NAS-DAT P/N 461756-24**
    - 24 in (70 cm) x 3 in (7.6 cm)
    - Brass Grommet/Nylon cord/Al crimp
- **Proprietary Hi-Visibility DAT P/N 4701HVS**
    - International Orange
    - Reflective Accent for Night Visibility
    - 18.5 in (47cm) x 2.25 in (5.7cm)
    - Brass Grommet/Nylon cord/Al crimp
- **Custom Streamers Available**

Total Assembled Weight w/Streamer:
STD & **Large**: 4.75oz (135g); **Short**: 4.0oz (113g)

Labels: ONE-PIECE POLYPROPYLENE BODY HALF; THERMAL ACUATOR; HI-TEMP SUSPENSION/ISOLATION BARRIER; NOSE CONE; THERMAL ACTUATOR PIN; THERMAL ACTUATOR PIN RETAINER; HI-TEMP SUSPENSION/ISOLATION BARRIER White-77TBU** Green-77TBS** Blue-77TBL**; NOSE CONE STRINGERS; PITOT TUBE ACCESS APERTURE; LOW-FRICTION/HI-TEMP POLYMER PLATE; STREAMER/LANYARD ATTACHMENT EYELET; ACCESSORY (eg. STATIC PLUG LANYARD) ATTACHMENT EYELET; THERMAL CHAMBER; HOLD/RELEASE FLANGE

PitotShield V2™ Standard Size
77TBU** Fit Parameters

Min Dist tip to mast
3in / 76mm
15/32 in / .47in / 12mm
Minimum Pitot Tube Diameter
Measure 3in/ 76mm from tip

3in / 76mm
13/16in / .81in / 21mm
Maximum Pitot Tube Diameter
Measure Max Diam. w/in 3in/76mm from tip

PitotShield V2™ Short Size
77TBS** Fit Parameters

Min Dist tip to mast
2.56 in/ 65 mm
15/32 in / .47in / 12mm
Minimum Pitot Tube Diameter
Measure 2.56 in/ 65 mm from tip

2.56 in/ 65mm
13/16in / .81in / 21mm
Maximum Pitot Tube Diameter
Measure 2.56in /65mm from tip

PitotShield V2™ Large Size
77TBL** Fit Parameters

Min Dist tip to mast
3in / 76mm
0.81in/21mm
Minimum Pitot Tube Diameter
Measure 3in/ 76mm from tip

3in / 76mm
.91in/23mm
Maximum Pitot Tube Diameter
Measure 3in/ 76mm from tip

APPLICATION/FITTING DETAILS

This **Standard-Size PitotShield V2™ Smartcover™** fits nearly all turbine aircraft round pitot tubes. If the tip of the pitot tube is less than 3in/76mm from the mast or the diameter at 3in/76mm from the tip is less than 0.47in/12mm, or the pitot tube diameter within three inches from the tip is greater than 13/16in (21mm), the **Standard PitotShield V2™ Smartcover™** will not fit.

APPLICATION/FITTING DETAILS

This **PitotShield V2™-S (Short) SMARTCOVER™** fits round pitot tubes having a minimum length from the mast of 2.56in/ 65mm and a maximum diameter of 0.81in/21mm.

APPLICATION/FITTING DETAILS

This **PitotShield V2™-L (Large) Smartcover™** fits pitot tubes with a minimum length from tip to mast of 3in/76mm and a maximum diameter from .81"/21mm to .91" within 3in (76mm) of the tip.