



Donaldson.  
FILTRATION SOLUTIONS

# POWERTRAIN ENCLOSURE PROTECTION VENTS



# POWERTRAIN VENTS



## Features & Benefits

### Combined Filtration & Venting Technology

- Oleophobic and hydrophobic Tetratex™ ePTFE membrane equalizes pressure while protecting components from external contaminants like water, dirt and road salt
- Proprietary high efficiency Synteq™ XP pre-filter helps prevent oil filming on the ePTFE membrane to ensure the vent will last the lifetime of the vehicle

### Reduced Manufacturing Costs & Simplified Design

- Simple, direct attachment vents fit directly into a drivetrain component or connects to a simplified hose configuration
- Hydrophobic technology allows vent to be located below a vehicle's water fording line eliminating the need for complex hose routings

### Flexibility of Integration

- Two standard attachment designs allow integration flexibility
  - Screw-Fit design integrates directly into a component reducing the number of required parts and providing a compact, low profile design
  - Hose-Fit design fits onto the end of a hose, allowing for easy incorporation into existing drivetrain designs while reducing tubing length, eliminating parts and streamlining installation time
- Core technology can be tailored for unique applications

## Typical Applications

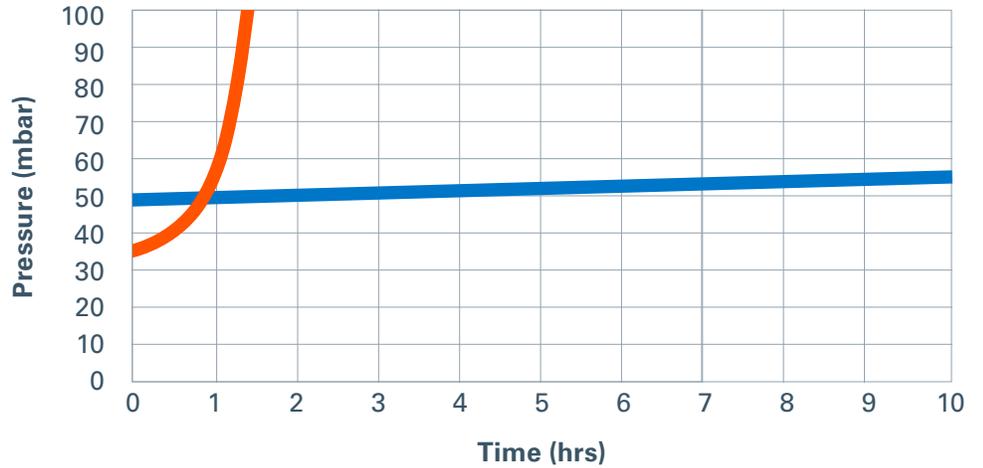
- Electric Drive Modules / 3-in-1
- Axles / Differentials
- Power Transfer Units / Transfer Cases
- Limited Slip Couplings / E-LSDs
- Traction Motors
- Transmissions

	Donaldson PTV	Jiggle Cap / Hose Breather	Membrane Only Vent
Direct Attachment	✓		✓
Water & Dust Ingress Protection	✓		✓
Oil Resistance	✓	✓	

# Powertrain Vent Oil Vapor Test

- Donaldson PTV
- Competitor PTV

Donaldson PTV uses proprietary Tetratex™ ePTFE and high efficiency Synteq™ XP pre-filter media design to handle specific fluids. While competitors' vents lose functionality over time, Donaldson powertrain vents maintain functionality over the lifetime of your vehicle.



## DESIGN



Donaldson is IATF 16949:2016 certified and our focus is on high quality manufacturing, responsive customer service, and tailored solutions that can be easily integrated into our customer's device or application. Our unique, proprietary membrane and oleophobic treatment processes allow us to select the best types of materials to meet your application requirements.

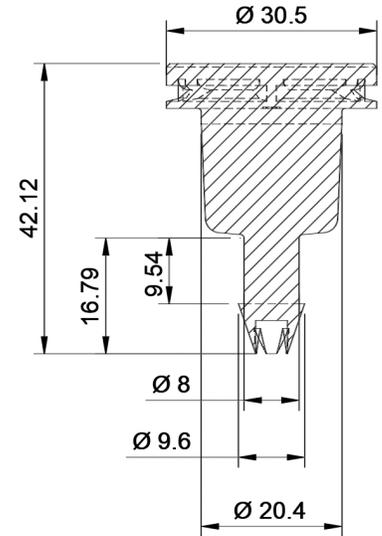
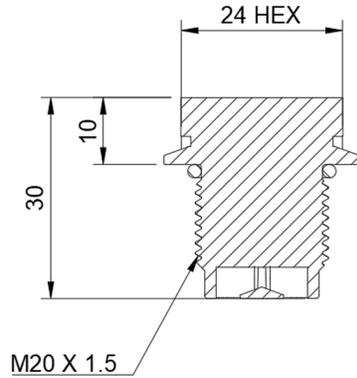
Donaldson Company is a leading global provider of filtration products, with sales and manufacturing of venting products in the U.S., Europe and Asia. Let Donaldson be your partner in problem-solving.

# PRODUCT OFFERING

All dimensions are in millimeters.  
Other sizes or mounting configuration available on request.

## Screw-Fit PTV

## Hose-Fit PTV Small



Product Number	P518235	P518625
Attachment Method	Screw into housing – O-ring	Applied on hose end
Body Material	PA66 GF30	PA66 GF30
Membrane	Tetratex™ ePTFE	Tetratex™ ePTFE
Pre-Filter	High Efficiency Synteq™ XP	High Efficiency Synteq™ XP
Water Entry Pressure	>345 mbar [>5psi]	>345 mbar [>5psi]
Typical Airflow	1.3 L/min @ 70 mbar	1.7 L/min @ 70 mbar
Operating Temperature	-40°C – 125°C (-40°F – 257°F)	-40°C – 125°C (-40°F – 257°F)



[donaldson.com/venting](https://donaldson.com/venting)

Donaldson Company, Inc.  
Minneapolis, MN, USA

