

WP0236

Dodge® TXT/TAII gearboxes: breathers

Dodge Customer/Order Engineering

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A breather is an essential component of a gearbox. If a breather is not installed, pressure can build up and cause oil to leak by one or more seals from the gearbox. Oil loss from the reducer can increase heat generation, lead to more wear of internal components, and ultimately gearbox failure.

A typical breather prevents this pressure from building by allowing hot air to escape and fresh, cooler air to come in. The quality of the air going into the gearbox can be completely different depending on the environment the gear box is used in. Dodge sells four different types of breathers that are used in its TXT and TAIL gearboxes.

Standard Filter Breather

(Inside/Moderate Outdoor Environments)

The standard breather provides protection in more moderate environments. The felt filter inside the breather will capture mainly larger particulates from the air. This unit is the normal breather that is installed at the factory for Torque Arm gearboxes.

Gearbox Sizes	Breather P/N
TXT 1-4, TA0107-TA3203, MTA2-3	900287
TXT 5-10, TA3207-TA12608, MTA4-8	904287
TXT12, TDT13-15	271041 (no filter on breather)



40 Micron Filter Breather:

(Inside/Moderate Outdoor Environments)

For those wanting a little more protection, the next breather that is supplied is the 40 micron filter breather. This breather uses a ceramic filter inside to capture smaller particulate than the standard breather.



Gearbox Sizes	Breather P/N
TXT 1-4, TA0107-TA3203, MTA2-3	430048
TXT 5-12, TDT13-15, TA4207- TA12608, MTA4-8	430049



Hydra-Lock Desiccant Breather:

(Harsh and Humid Environments)

The Hydra-Lock desiccant breather is used for harsher and more humid surroundings than the standard or 40-micron breathers. The silica gel desiccant in this breather turns from blue to pink when the unit has absorbed its maximum capacity of water from the air. This visual cue alerts maintenance personnel that it is time to change the breather out. This

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breather also features filtration down to 3 microns for maximum protection. They can also be used for wash-down applications and even installed on gearboxes kept in long term storage. More information on this breather can be obtained from flyer FL1627 on www.baldor.com.

Gearbox Sizes	Breather P/N
TXT 1-4,TA0107-TA3203, MTA2-3	964372
TXT 5-9,TA4207-TA9415, MTA4-8	964364
TXT 10-12,TDT13-15, TA10507-TA12608	964366



Totally Enclosed Chamber Breather:
(Harsh Environment)

The totally enclosed chamber breather is best for extremely high humidity or hot/dusty environments. This breather allows no outside air to enter the gearbox. An elastic diaphragm, enclosed in the breather's steel chamber, expands and contracts with internal pressure changes in the gearbox. This is the highest level of protection from the elements, but it is also the most expensive.

Gearbox Sizes	Breather P/N
TXT 1-10,TA0107-TA9415, MTA2-8	240050
TXT 12,TDT13-15, TA10507-TA12608	240051