

How to Use this Manual

This manual provides detailed instructions on proper storage, installation, and maintenance of AirMax® Plus™ breathers for Falk® Gear Drives or other equipment.

Introduction

Breathers are required on enclosed equipment to equalize the internal housing pressure as the drive or equipment temperature changes during operation and idle time in relation to the ambient temperature. As air is transferred in and out to equalize pressure, the AirMax Plus breather provides contamination and moisture control preventing contamination of the gear drive or other equipment.

Storage

Falk AirMax Plus breathers should be stored in their original packaging in a dry, moderate temperature environment. During storage, extreme heat, cold, and humidity should be avoided until time of use. If stored properly, Falk AirMax Plus breathers are capable of a shelf life of up to one year in storage before they should be replaced.

Installation Instructions

Breathers are shipped loose and must be installed prior to drive or equipment operation. The following instructions are for Falk AirMax Plus AM-2, AM-HG-1 and AM-HG-8 installation. See Figure 1 for reference.

1. Remove airtight cap from bottom of breather standpipe.
2. Red air vent plugs must be removed prior to operation based on air flow requirements. Open air vents should be 180° from each other.
 - A. For ALL Falk/Rexnord gear drives — remove two (2) plugs from the bottom air vents.
 - B. Other equipment — See Table 1 based on air flow requirements of equipment for plug removal.
3. Install breather on gear drive or other equipment. The breather threads directly into a pipe tap hole or fitting. Hand-tighten only to seal o-ring against pipe fitting.

Table 1 — Air Vent Holes to Open

Air Flow @ 1psid	Vents to Open
0 – 4 cfm / 0 – 113 lpm	2
4 – 8 cfm / 113 – 226 lpm	4
8 – 12 cfm / 226 – 339 lpm	6
12 – 16 cfm / 339 – 453 lpm	8

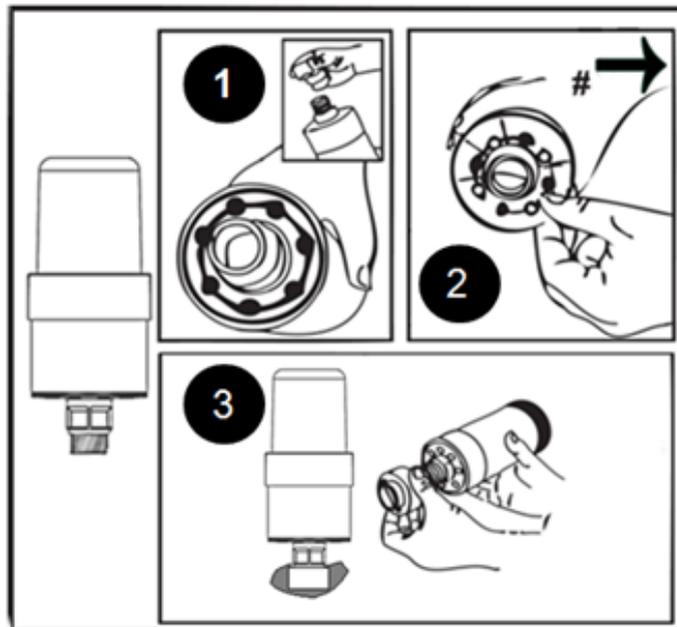


Figure 1

Specifications

See Table 2 for breather specifications.

Table 2 — Falk AirMax Plus Specifications

Product Specification	Model		
	AM-2	AM-HG-1	AM-HG-8
Max. Flow Rate @ 1 psid	16 cfm 453 lpm	1.41 cfm 39.9 lpm	2.50 cfm 70.5 lpm
Filtration	3μ absolute, (β3 > 200)		
Connection	1" NPT	3/8" NPT	1" NPT
Falk P/N	2931427	2932619	2930751

Maintenance

Falk AirMax Plus breathers have visual indication when they need to be changed. As the breather functions, the silica gel material changes color from blue to pink as it absorbs moisture. When all the material has turned pink in color, it is time to replace the breather. Life of breather is dependent on operating conditions and ambient conditions (humidity). Breather should be changed every twelve (12) months regardless of color.