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**Blackmer, A Dover Company,  
1809 Century Avenue S.W., Grand Rapids, Michigan 49503-1530, United States of America**

## **DECLARATION OF CONFORMITY**

as defined by the ATEX directive 2014/34/EU

Herewith we declare that Blackmer HROF, HRO, HRA, HRB, HRC gearbox models to which this declaration relates are in conformity with the provisions of the ATEX Directive 2014/34/EU as of 20 April 2016. The above equipment is a single reduction, helical gear, offset shaft, gear reducer designed to facilitate driving Blackmer pumps at proper speeds. Technical file is archived with LCIE notified body number 0081, file no. LCIE 108205-615441.

Applied Harmonized Standards: EN1127, EN13463  
Applied National Technical Standards: UL 51

Bob Lauson  
General Manager

12 April 2016  
Date

## **DECLARATION OF INCORPORATION**

As defined by the Machinery directive 2006/42/EC, Annex II A

Herewith we declare that Blackmer HROF, HRO, HRA, HRB, HRC gearbox models to which this declaration relates are in conformity with the provisions of the Machinery Directive, 2006/42/EC as of 17 May 2006. The above equipment is a single reduction, helical gear, offset shaft, gear reducer designed to facilitate driving Blackmer pumps at proper speeds.

Applied Harmonized Standards: EN1127, EN13463  
Applied National Technical Standards: UL 51

Bob Lauson  
General Manager

12 April 2016  
Date

## **ATEX/ Machinery Directive Notifications:**

**Maximum Surface Temperature:** It is the end users responsibility to ensure the gearbox does not exceed the temperature limits.

**Intended Use:** Blackmer Gearboxes are intended to be used in driving Blackmer pumps.

**Possible Misuse Warning:** The gearbox must only be installed in systems designed for its intended use.

**Mechanical Ignition Sources:** Guards, intended to protect from personal injury from rotating components, must be fabricated from ATEX compliant materials to prevent a potential ignition source. The gearbox and its' drive system must be properly grounded to prevent electrostatic discharge. Gearboxes must be properly maintained and lubricated, see IOM (Installation, Operation, & Maintenance Instructions) for service information. Gearboxes must have lubrication level checked weekly. Gearbox bearings should be replaced every 10,000 hours of use.

**Sound Measurements:** Sound Levels for pumping equipment vary greatly, depending on operating conditions, piping system design, foundation design, etc. Probably the greatest effect on sound level is the presence of cavitation, which is primarily dependent on system design and often, increases dramatically during system upset. The gearbox is not a major contributor to the noise of the unit. You can expect the following sound levels when operating a Blackmer pump at its' maximum rated speed and discharge pressure with NO cavitation. Sound levels are measured at 1 meter from the pump and 1.6 meters from the foundation per European Machinery Directive 2006/42/EC.  
Maximum Noise Level: 85 dba

**Equipment Marking:** All gearbox models are classified Group II category 2, Gas Group IIB and are marked "II 2 G IIB T6"