

# EC Certification of Conformity



**No.: EX8 03 10 51217 001**

On the basis of voluntary testing in accordance with Appendix VIII of Directive of the Council No. 94/9/EG for devices and protective systems intended for use in areas subject to the risk of explosion for:

**P.T.M. PRODUKTION**  
**techn.-mech. Geräte GmbH**  
**Boschstraße 4**  
**D-82178 Puchheim**

**Product:** **Non-electrical equipment**  
**Radial piston motor**

**Model:** **PMO (Ex)**

**Technical data :** **see appendix**

The device designated above conforms to the relevant requirements of the EC directive.

This certificate is issued on the basis of testing and certification of test samples provided and their technical documentation. The detailed results of the testing and the technical documentation should be taken from the test report.

Test report no.: *PP 63071 T*

The certificate refers exclusively to TÜV PRODUCT SERVICE for the testing of the samples provided. A time restriction is therefore irrelevant.

Approved with the above EC certification of conformity No. by the certification office of TÜV PRODUCT SERVICE.

Department:  
Date :

*P. Blum*  
TA-ES/jb  
22.10.2003



## Appendix to EC Certification of conformity

No.: EX8 03 10 51217 001

### 1 Description


The radial piston motor has neither connecting rods nor crankshaft. The pistons are arranged in a star shape, and act against the curved surface of the housing interior. The working method corresponds to that of a single-acting cylinder. An exhaust air ventilation aperture is provided in order to vent off the slight over-pressure ( $\text{Volume}_{\text{max}}: 0.1 \text{ m}^3/\text{h}$ ) from the housing interior during operation. The rollers are made of plastic (POM) and mounted in two sets of ball bearings. The motor develops its peak torque in the low revolutions range between  $30 < n < 300 \text{ rpm}^{-1}$ .

These motors are used in paint shops (paints containing solvent, e.g. petrol, kerosene), mills and silos.

The requirements for safe operation should be taken from the operating instructions for areas subject to the risk of explosion.

### 2 Designation

The designation must be clearly visible, legible and permanent, and must contain the following information:


- Name and address of the manufacturer
- Year of manufacture of the device
- The designation  II 2 G/D c T5 100°C

### 3 Conditions

- The radial piston motor may only be used in the ambient temperature range between  $-10^\circ\text{C} \leq T_a \leq 80^\circ\text{C}$ .
- The operator must ensure that the compressed air used is filtered with a fineness of  $< 5\mu\text{m}$ .
- The external bearings must be replaced after an operating time of 45.000 hrs.

There are no further conditions for operation. The information contained in the operating instructions must be observed.

Department: TA-ES / jb  
Date: 22.10.2003

  
Dipl.-Ing. J. Blum