

# REACH REGULATION

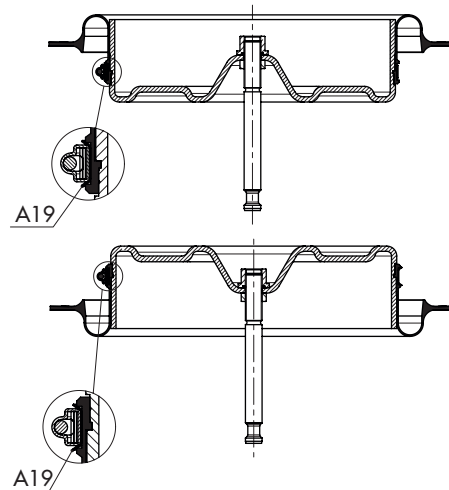
## R 0003 EN

### Instructions on the Safe Handling According to the REACH Regulation 1907/2006 <sup>1)</sup>

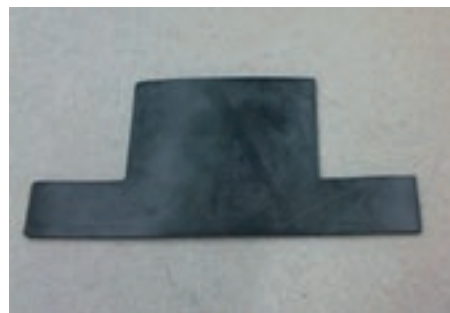
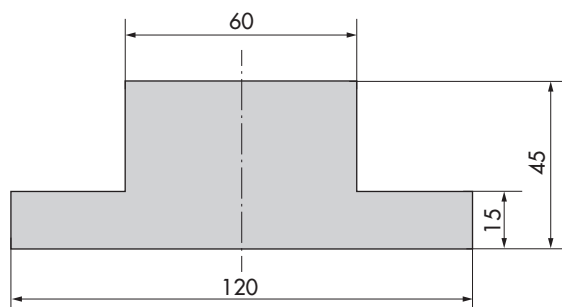
Compressors made of NBR (nitrile rubber), SAMSON item no. 0320-0812, used in Type 3271, 700 cm<sup>2</sup> and 1400-60 cm<sup>2</sup>



**Fig. 1:** Type 3271 Pneumatic Actuator, 700 cm<sup>2</sup> actuator area



**Fig. 2:** Location of the compressor (A19) in Type 3271 for "actuator stem extends" version (top) and "actuator stem retracts" version (bottom)



**Fig. 3:** Compressor in Type 3271





<sup>1)</sup> REACH regulation: Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the registration, evaluation, authorization and restriction of chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

## 1 Note

Polycyclic aromatic hydrocarbons are considered to be hazardous substances in solid materials (see <http://gestis.itrust.de>)

### 1.1 Customer information according to Article 33 of the REACH Regulation 1907/2006

The compressors are installed in actuators with 700 cm<sup>2</sup> and 1400-60 cm<sup>2</sup> actuator areas, but not in smaller versions. The compressors, as individual articles according to Article 33 of the REACH Regulation, contain the following (pure) chemical substance:

Name of final product	CAS/index no.	Rating acc. to GHS/CLP <sup>1)</sup>	Occupational health and safety
Compressor made of NBR, containing benzo(a)pyrene/ (benzo(def)chrysene)	50-32-8 200-028-5	 – CMR: carcinogenic, mutagenic or toxic for reproduction – PBT: persistent, bioaccumulative and toxic – vPvB: very persistent and very bioaccumulative (Article 57a, 57b, 57c, 57d and 57e)	 No eating or drinking  Wear eye protection.  Wear safety gloves.

<sup>1)</sup> This rating takes effect mainly when the compressor is destroyed. When used as intended, the article wears down slowly through everyday wear.

### 1.2 List of individual articles according to judgment by the Court of Justice of the European Union concerning case C-106/14 of 2015-10-16, "Once an article, always an article" (O5A) <sup>2)</sup>

The entire product is made up of the material. Therefore, each compressor is calculated individually.

The compressors used have been sold installed in our products which are in use at our customers. According to the Regulation (EU) No. 1272/2013 <sup>3)</sup>, the concentration so far is greater than 1 mg/kg.

SAMSON AG voluntarily changed all compressors in stock over to versions with reduced content of polycyclic aromatic hydrocarbons (PAH) as of **15 June 2017**. The content of the named substance in the new version is as follows:

- Benzo(a)pyrene CAS No. 50-32-8 max. 1 mg/kg, total PAH/PACH max. 50 mg/kg

<sup>2)</sup> Judgement by the Court of Justice of the European Union concerning case C-106/14 of 10 September 2015 (once an article, always an article), O5A, ► <https://curia.europa.eu/jcms/upload/docs/application/pdf/2015-09/cp150100en.pdf>

<sup>3)</sup> Commission Regulation (EU) No. 1272/2013 of 6 December 2013 amending Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as regards polycyclic aromatic hydrocarbons

## 2 Information on safe handling

The compressors are already installed in the pneumatic actuators with diaphragms delivered by SAMSON or are supplied as spare parts to replace defective compressors. The substance is contained in the nitrile rubber. As a result, hardly any direct contact with the substance will occur under normal, foreseeable conditions and when used as intended. Nevertheless, contact could occur when handling the compressor directly. To prevent such contact and ensure the safe handling of the article, observe the following instructions on safe use:

- A release of the substance is unlikely to occur when used as intended. As a result, any direct contact with large quantities of the substance will rarely occur under normal, foreseeable conditions and when used as intended.

Nevertheless, it may occur that persons come into contact with compressors or with their dust when handling the article directly. To prevent such contact and ensure the safe handling of the article, observe the following instructions on safe use.

### 2.1 Personal safety measures

→ We recommend wearing suitable safety gloves made of the following materials (permeation breakthrough time  $\geq 8$  hours) during assembly and disassembly.

- Nitrile rubber NBR, nitrile latex (0.35 mm)
- Butyl rubber, butyl (0.5 mm)
- Fluorocarbon rubber FKM (0.4 mm)

Wear gloves made of the following material for continual contact not longer than 4 hours (permeation breakthrough time  $\geq 4$  hours):

- Polychloroprene CR (0.5 mm)

Wear gloves made of the following material for continual contact not longer than 2 hours (permeation breakthrough time  $\geq 2$  hours):

- Polyvinyl chloride PVC (0.5 mm)

→ Use an effective extraction system to extract the dust during machining.

TRGS 910 (Technical rule for hazardous substances: Risk-related concept of measures for activities involving carcinogenic hazardous substances). See also TRGS 551.

Acceptable and tolerable concentrations depending on the substance

Acceptable concentration

Mass concentration: 70 ng/m<sup>3</sup> inhalable fraction

Acceptable concentration associated with a risk of 4:10000

Tolerable concentration

Mass concentration: 700 ng/m<sup>3</sup> inhalable fraction

Excursion factor: 8

Respiratory protection: FFP1 or FFP2 in case of dust formation

- Extract dust in case of dust formation.
- Keep dusts away from food and beverages.
- Wash your hands before rest breaks and after completing work.
- Change contaminated clothing.

### 2.2 Medical checkup

Employees must not perform an activity with this substance until they have received compulsory health care. Recommended occupational health care must be offered before work is commenced.

### 2.3 Environmental protection measures

Avoid subjecting the tool to mechanical machining processes (e.g. drilling, grinding, hammering) wherever possible. Use an extraction system if dust is created during machining. Make sure the substance is not released into the sewage system. Individual components are to be replaced by properly trained and instructed staff only. Make sure that these instructions are available to the staff before replacing any components. Use the article as specified in the applicable instructions (refer to mounting and operating instructions):

- ▶ EB 8310-3 for pneumatic actuator with 1400-60 cm<sup>2</sup> actuator area
- ▶ EB 8310-6 for pneumatic actuator with 700 cm<sup>2</sup> actuator area

### 3 Manufacturer address

- In cases of doubt, contact SAMSON's material compliance experts at: [compliance@samson.de](mailto:compliance@samson.de)
- For up-to-date information: ► REACH pages on the SAMSON website.