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This operating manual is the translation of the original German version.
Responsible: Dr.Axel Froeschle, R&D dept.
1 Preface to these operating instructions

To these instructions
These operating instructions
• describe in detail the correct functions, operation and maintenance of the OSP-P.
• provide important information on how to work efficiently and safely with the OSP-P.

Personnel responsibilities
All persons that are assigned to work with the OSP-P are obliged, before starting work, to:
• observe the regulations on explosion protection, work safety and accident prevention carefully.
• read and observe the chapter on safety and the warning notices in these operating instructions.

Operator’s responsibilities
The following are assumed to be responsibilities of the operator:
• adherence to regulations governing operational safety
• adherence to applicable national regulations governing work safety and explosion protection
• correct application of the cylinder

The OSP-P may not be put into operation until the machine/system (into which the OSP-P is to be installed) has been checked in accordance with the regulations set out in the EC Machinery Directives.

Explanations to symbols and information
Information, highlighted with one of these symbols, is provided to prevent injury to personnel. Please ensure that all users understand this information.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
<td>Caution: passages in these operating instructions that relate to safety are highlighted with this symbol.</td>
</tr>
<tr>
<td>i</td>
<td>Information: symbol for tips and information to facilitate use of machine and to help to prevent damage.</td>
</tr>
<tr>
<td></td>
<td>Caution: falling load</td>
</tr>
<tr>
<td></td>
<td>Caution: danger of crushing</td>
</tr>
<tr>
<td></td>
<td>Caution: explosive atmosphere</td>
</tr>
<tr>
<td></td>
<td>Caution: danger of exploding</td>
</tr>
<tr>
<td>!</td>
<td>Caution: danger of lacerations</td>
</tr>
<tr>
<td></td>
<td>Note: wear safety glasses</td>
</tr>
<tr>
<td></td>
<td>Note: accessory available</td>
</tr>
<tr>
<td>!</td>
<td>Caution: risk of fire</td>
</tr>
<tr>
<td></td>
<td>Electric earthing, realise equipotential bonding</td>
</tr>
</tbody>
</table>

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### Type plate
You will find this type plate on the opposite side of piston.

#### ATEX type plate / base cylinder

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order no.</td>
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<tr>
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</tr>
<tr>
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<td>/ 03.12.12</td>
</tr>
<tr>
<td>CE symbol</td>
<td>Parker Hannifin Manufacturing Germany &amp; Co. KG. Industriestraße 8 D-70794 Filderstadt</td>
</tr>
<tr>
<td>Diameter</td>
<td>mm</td>
</tr>
<tr>
<td>Stroke</td>
<td>mm</td>
</tr>
<tr>
<td>Unit of Measurement</td>
<td>mm</td>
</tr>
<tr>
<td>Production order no.</td>
<td>80103939</td>
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<tr>
<td>Type</td>
<td>Parker Hannifin Manufacturing Germany &amp; Co. KG. Industriestraße 8 D-70794 Filderstadt</td>
</tr>
<tr>
<td>Max. speed</td>
<td>max. 3m/s, max. 8bar</td>
</tr>
<tr>
<td>Max. operating pressure</td>
<td>max. 8bar</td>
</tr>
<tr>
<td>Max. switching rate</td>
<td></td>
</tr>
</tbody>
</table>

#### ATEX - Typenschild / guide cylinder SLIDELINE

<table>
<thead>
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<th>Attribute</th>
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</tr>
<tr>
<td>Max. speed</td>
<td>max. 2m/s, max. 8bar</td>
</tr>
<tr>
<td>Max. operating pressure</td>
<td>max. 8bar</td>
</tr>
<tr>
<td>Max. switching rate</td>
<td></td>
</tr>
</tbody>
</table>

#### ATEX - Typenschild / guide cylinder Basic Guide

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
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</tr>
<tr>
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</tr>
<tr>
<td>Max. switching rate</td>
<td></td>
</tr>
</tbody>
</table>

### Product monitoring
Our aim is to provide safe products integrated with the latest technologies. This is why we monitor our products constantly after delivery. Please inform us immediately of any recurring faults or problems with the cylinder.
2 Safety

Classification

II 2 GD c T4  T135°C -10°C ≤ Ta ≤ +60°C
For base cylinder: max. 1 Hz, max. 3 m/s, max. 8 bar
For guide cylinder: max. 0.5 Hz, max. 2 m/s, max. 8 bar
These values can only be guaranteed if the condensed technical data provided for these ex products are adhered to exactly.

Intended use
The OSP-P has been designed for use in explosive environments in accordance with the regulations specified by the ATEX Directive 94/9/EC.
Operational safety can only be ensured if the OSP-P is used as intended.
Intended use is only respected if the OSP-P is used in accordance with the condensed technical data:
• to move loads
• to apply force
The OSP-P is driven with compressed air.
If the system is to be used as intended, all work on the OSP-P must be carried out by the manufacturer’s servicing personnel.
If the OSP-P is used in a manner other than is stipulated, this classifies as “inappropriate valve use” and could result in either injuries to persons or damage to property. The manufacturer is not liable for such injuries or damages. The user alone assumes full risk.

Operating personnel
The system operator is obliged to ensure that the OSP-P is installed by authorised and qualified technicians. Authorised, qualified personnel are engineers who have been specially trained by the operator, the manufacturer and the service partner and who work in accordance with the explosion protection regulations.

Safety-conscious work environment
The following are not permitted:
• unauthorised modifications to the OSP-P
• operations which interfere with OSP-P safety.
Please observe:
• all safety instructions and symbols on the OSP-P referring to compressed air connections. Please ensure that they are easy to see and read
• manufacturer’s instructions for lubricants, solvents and cleaning substances.

Dangers following OSP-P or machine/system shutdown
Risk of crushing
Even after venting the machine/system, there could still be pressure in the OSP-P. This could cause the OSP-P to move unexpectedly.
Prevent the complete ventilation of the cylinder when being switched off in terms of the control system thus preventing the piston from bumping against a completely ventilated cylinder room.

In explosive areas
Please observe the detailed operating instructions of OSP-P and the total machine/system operating instructions.

Alterations and changes
Any structural or safety-relevant changes to the linear drives must first be approved in writing by Parker Hannifin GmbH. Parker Hannifin GmbH may thus exclude liability if any unauthorised modifications are made.
No safety or protective equipment may be removed or taken out of operation.
Please observe the manufacturer’s assembly instructions when using any special attachment parts!
The following also apply:
• relevant accident prevention regulations
• standard recognised safety rules
• EC guidelines and
• national directives
Accessories
Accessories authorised by the manufacturer ensure your safety. The use of other parts could change the OSP-P properties. We do not assume any responsibility for any damages caused by the use of unintended parts.

3 Warranty
These operating instructions as well as the technical details in the data and illustrations are subject to change. Parker Hannifin GmbH does not issue any legal or service life warranties or any warranties guaranteeing the suitability for certain purposes. These must be agreed in writing.
Public statements, prices or advertisements are not legally binding.
The operator’s warranty rights assume that the operator reports the fault/defect immediately and gives a precise description of his/her complaint. Parker Hannifin GmbH is in no way responsible for product damages or consequential damages resulting from the product that have been caused by improper use. As far as Parker Hannifin GmbH is to assume responsibility for the defect/fault, the decision to either repair the product or provide a replacement shall remain the right of Parker Hannifin GmbH.
In compliance with ISO 9000, all OSP-P come supplied with a type plate and cautionary advice and information. These are attached to the OSP-P and may under no circumstances be removed or disposed of.
The company Parker Hannifin GmbH can, regardless of the governing legal grounds, only be made liable in cases of intentional or severe negligence, culpable injuries to life, body or health, or where defects are deliberately concealed or when the absence of such defects has been explicitly guaranteed in writing.
Other matters will be deemed liable insofar as stipulated by the product liability laws for injuries to persons and damages to property for products in private use. Parker Hannifin GmbH is also liable in the event of a culpable breach of integral contractual agreements and for cases of slight negligence, however liability is then restricted to predictable damages representative for the type of contract.
Other claims are disregarded.
The warranty shall become invalid if these operating instructions, respective legal regulations as well as other information provided by the supplier are not observed.
We are, in particular, not responsible for breakdowns caused by modifications made by the customer or other persons. In such cases, the normal costs for repair will be invoiced. The customer or other persons will be also invoiced for a system check in the event that no faults could be found in the machine.
This regulation also applies during the warranty period.
The company accepts no claims for the delivery of older system versions and is not obliged to update old systems in accordance with the latest series.

4 Technical Data
Max. compressed air temperature and ambient temperature: -10 °C bis +60 °C
Maximum switching rate: 1 Hz (1 double stroke/s) with base cylinder
0.5 Hz (1 stroke/s) with guide cylinder
Maximum operating pressure: pmax = 8 bar.
Max. speed:
Base cylinder 3 m/s
Guide cylinder 2 m/s
Compressed air requirements:
Not oiled and without water and dirt in accordance with ISO 8573-1
Solids: class 7 particle size < 40 µm for gas
Water content: pressure dew point +3°C, class 4 at least 5°C below min. operating temperature
Noise emissions: 70 dB(A).
Material information:
Aluminium materials: see material data sheet
Lubrication: see “Grease for guide cylinders” safety data sheet
Steel bands: stainless
You will find other details, e.g. dimensions, weight, permissible loads, cushioning diagram and accessories in our OSP-P catalogue.
Design and function

Design features (see OSP-P catalogue)
The OSP-P is a pneumatic cylinder without piston rod.
The load is mounted onto a carrier.
The cylinder is installed using threads located on the ends or with end cap mountings.
For long cylinders, additional mid-section supports should be used.
The end cushioning has stepless adjustment (see cushioning diagram in the OSP-P catalogue).
The cylinder has permanent grease lubrication.

Function
The piston is moved by compressed air in the OSP-P. The piston is connected to the carrier. The load to be moved is mounted on the carrier. The longitudinal slot in the cylinder is sealed and protected by stainless steel bands.

5 Transport

5.1 Handling

Danger from falling load

Falling loads could result in death.
When transporting the OSP-P, it should be suspended as shown. Never walk beneath a suspended load.
Incorrect transport and installation of the OSP-P can lead to:
• personal injury
• damage to property

Use a crane or fork lift truck to transport the packaged OSP-P.
• attach the cables or position the forks as shown.

Transporting the OSP-P by crane
• attach the cables as shown.

Information

Transport damage and missing parts should be reported in writing to the shipping company, Parker Hannifin GmbH or the supplier immediately.

5.2 Interim storage

Ensure the following when finding a suitable interim storage:
• dry place free of dust and vibrations.
• storage on a flat surface.

Avoid bending the OSP-P!
6 Assembly

6.1 General informations at assembly

Installation work and commissioning must be carried through by special only!

Install the OSP-P in accordance with the EN 983 Standard and the 94/9/EC Explosion Protection Directive. Please note the instructions in the OSP-P catalogue.

Before assembly:
- remove and dispose of all packaging.
- make two strokes of the piston by hand without air pressure.

Always ensure the following when assembling:
- the OSP-P is installed without bending
- that any added electrical devices (including limit switches) have the required approval
- all connections and operating parts are accessible.
- the ATEX type plate and the yellow strip with the “Attention” note is legible
- compressed air is not discharged and/or sucked in from the hazardous area.

6.1.1 Explosion hazard EX

Wrong use or operation of the OSP-P can lead to an explosion hazard at the unit and in the vicinity!

Always ensure the following when assembling:
- that the electric earthing is connected to the local equipotential bonding of the machine or plant
- that no equalising current is flowing through the cylinder.
- the maintenance rules have to be complied with.

Your control system must ensure that:
- the technical data are complied with (see section 4, page 6)
- the OSP-P remains ventilated when the plant is switched off so that no atmosphere capable of explosion can enter the cylinder space
- the cylinder spaces are always fully ventilated when there are high fluctuations in temperature and when the OSP-P is cooling down
- the piston never moves against a fully ventilated cylinder space.

6.1.2 Danger from overheating

When fitted near areas where heat is generated there is a risk of overheating due to heat build-up.

Please observe the following during installation:
- there must be sufficient cool air circulating the OSP-P.
- safety screens must be mounted near heat sources on the machine to prevent against overheating.
- The maximum ambient temperature of +60°C must not be exceeded.

The operator is responsible for removing potential dangers posed by Parker-Origa products when used together with customer equipment.

Risk of crushing, risk of lacerations and eye injuries

Do not carry out any electrical welding work on the machine or system once the OSP-P has been installed. This could otherwise damage the seals and could result in the cylinder moving unexpectedly or cause discharge noises.

Dismount the OSP-P or provide adequate electrical isolation before carrying out any welding work on the electrics.
6.2 Details at assembly

Mechanical assembly always take care on:
- Fasten the working load to the carrier using only the 4 threaded holes in the carrier.
- Position the working load so that the bending moments on the carrier are below the values shown in the OSP-P catalogue.
- For long OSP-P, use mid-section supports (see support distances in the OSP-P catalogue).
- Avoid forces exerted by loads carried on external linear guides.
- Use a moving carrier (see OSP-P catalogue).
- The maintenance rules have to be complied with.

Electrical assembly

Always ensure the following when assembling:
- that the electric earthing is connected to the local equipotential bonding of the machine or plant and no equalising current is flowing through the cylinder.

Sensors enable your load to be positioned accurately.
- Only approved ATEX sensors may be used.
- Fit the sensors so that they are not close to ferritic parts or moving loads.
- Use the most favourable mounting slot on the circumference of the cylinder profile.

Your control system must ensure that:
- the cylinder spaces are always fully ventilated when there are high fluctuations in temperature and when the OSP-P is cooling down.
- the piston never moves against a fully ventilated cylinder space.

Pneumatic

- Actuate the cylinder via two 3/2-way valves or one 5/3-way valve, normally open.
- Avoid uncontrolled movements during start up or after an unwanted stop.
- Use pressurising units, soft start valves or something similar.
- Arrange the control system in such a way to avoid the cylinder chamber from being exhausted completely when the OSP-P cools down and so that the piston does not travel into a completely exhausted cylinder chamber.
- Adjust the piston speed with throttle non-return valves screwed directly into the OSP-P.
- Use compressed air connections of adequate size.
- Compressed air must not discharged and/or sucked in from the hazardous EX-area (restricted exhaust).

Samples of circuit diagrams:
7 Start up and commissioning

Installation work and commissioning must be carried through by special only!
The OSP-P pneumatic linear drive can produce fast linear movements at a high force. If the safety regulations are however not adhered to, this can result in the crushing of extremities or damages caused by collisions with other system parts.

Risk of crushing

Check the following before starting up the machine:
• all connections are fitted correctly
• there are no obstructions in the way of the moving load
• the OSP-P is assembled correctly and fitted securely.

Commissioning a complete system
• Check on/off switches, system start up, control LEDs in accordance with the operating instructions!
• Before switching on/starting up the system, ensure that nobody can be endangered when the system starts running.
• All persons must be aware of the system’s movements before starting up.
• Before the system is put into operation, check that all protective equipment, end switches, protective grounding and other safety features function correctly and are complete. It may be necessary to check all system parts for possible foreign matters.
• When the system is running, there should be no personnel or objects in the danger zone
• When you start up the system for the first time, check that the correct system data has been entered.
• Make two strokes of the piston by hand without air pressure.
• Move piston to the middle position.
• Screw in both cushion needle valves.
• Unscrew both cushion needles approx. a full turn.
• Pressurise system slowly in order to avoid uncontrolled, dangerous movements.
  (pressurising unit, soft start valve).
Cushioning diagrams

Base cylinder

Guide cylinder SLIDELINE and Basic Guide

Horizontal application, pressure \( p = 6 \) bar

\( vD = \text{extended cushion} \)

* For cylinders with linear guides or brakes, please be sure to take the mass of the carriage or the brake housing into account.
Commissioning an individual device
- Make two strokes of the piston by hand without air pressure.
- Move piston to the middle position.
- Screw in both cushion needle valves.
- Unscrew both cushion needles approx. a full turn.
- Pressurise both sides equally. The piston stops after slight movement.
- Vent one side. The piston travels to end position.
- Start test run.
- Adjust speed with throttle non-return valve.
- Adjust end cushioning with valve needle. When adjusting the end cushioning ensure that the system operates without any jolts or vibrations. The technical data in the cushioning diagram (on page 11) must be complied with to ensure a smooth operation.

Re-commissioning after long periods without operation
- Make two strokes of the piston by hand without air pressure.
- Move piston to the middle position.
- Continue as for individual device.

8 Operation

When operating

Danger of explosion from explosive atmosphere
The cylinder is only suited for a minimum ignition energy of dust exceeding 3mJ. There is a risk of explosion if the OSP-P overheats.

Danger from explosive atmosphere
- There should be no build up of flammable material on the exterior surfaces in explosive environments. Ensure that it is cleaned regularly: how often you clean depends on the ambient conditions.
- Avoid increased friction caused by lack of lubrication.

There is a risk of explosion if the OSP-P overheats.
If you encounter any problems with the OSP-P, switch off the machine/system immediately.
Contact the manufacturer’s service personnel as soon as possible.
Do not attempt to disassemble and repair the OSP-P.

Arrange the control system
- in such a way to avoid the cylinder chamber from being exhausted completely when the OSP-P cools down
- so that the piston does not travel into a completely exhausted cylinder chamber.

Troubleshooting:

<table>
<thead>
<tr>
<th>Fault</th>
<th>Possible cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air leakage of the OSP-P at any point of the internal sealing tape.</td>
<td>Internal sealing tape dirty</td>
<td>Call service personnel</td>
</tr>
<tr>
<td>Air leakage at the piston of the OSP-P</td>
<td>Piston sealing defective</td>
<td>Call service personnel</td>
</tr>
<tr>
<td>Air leakage at the cover of the OSP-P</td>
<td>O-ring defective/internal sealing tape dirty</td>
<td>Call service personnel</td>
</tr>
<tr>
<td>The OSP-P runs slowly or jerkily</td>
<td>1) Speed setting too low</td>
<td>re 1) Adjust speed with one-way restrictor</td>
</tr>
<tr>
<td></td>
<td>2) Operating pressure below 2 bar</td>
<td>re 2) Increase operating pressure</td>
</tr>
<tr>
<td></td>
<td>3) Soiling due to air or abrasion</td>
<td>re 3) to 6) Call service personnel</td>
</tr>
<tr>
<td></td>
<td>4) Lack of lubrication</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5) Defective piston packing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6) No jogging grease in the OSP-P for speeds under 0.2 m/s</td>
<td></td>
</tr>
<tr>
<td>Piston does not move to end position</td>
<td>Valve needle fully screwed home</td>
<td>Adjust valve needle</td>
</tr>
<tr>
<td>Piston drives too hard into the end position – on one or both ends</td>
<td>1) End position damper needs adjusting</td>
<td>re 1) Correct setting of valve needle</td>
</tr>
<tr>
<td></td>
<td>2) Possible overload</td>
<td>re 2) See damping diagram in the catalogue</td>
</tr>
<tr>
<td></td>
<td>3) Damper seal, O-ring on the cover/damper pin, piston sealing ring or inner sealing tape defective</td>
<td>re 3) Call service personnel</td>
</tr>
<tr>
<td>The transducer does not work properly</td>
<td>1) Ferritic parts are positioned too close to the transducer</td>
<td>Call service personnel</td>
</tr>
<tr>
<td></td>
<td>2) Transducer defective</td>
<td></td>
</tr>
</tbody>
</table>
9 Maintenance and service

Risk of crushing
Only carry out maintenance work when the machine/system has been switched off and the compressed air system has been vented. Always consult the machine/system operating instructions when carrying out maintenance on the OSP-P.

Danger of explosion from explosive atmosphere
Only carry out the following maintenance work listed below. If other OSP-P work is needed, dismount the OSP-P and send it to Parker Hannifin GmbH.

You may carry out the following maintenance tasks:
- check the connections, general state/appearance.
- cleaning exterior surfaces:
  Clean the exterior of the OSP-P with a dry, anti-static cloth. There should be no build up of flammable material on the exterior surfaces in explosive environments. Ensure that it is cleaned regularly: how often you clean depends on the ambient conditions.

Information
The manufacturer or a person authorised by the manufacturer should check the OSP-P after 4,000 km of operation and if necessary carry out necessary maintenance and servicing work.

Additional maintenance
You may carry out the following maintenance tasks on the guide cylinder Slideline SL and Basic Guide BG.
Adjusting the guide clearance:
The guide rails should be free from backlash and be easy to move by hand.
- Align the adjusting bolts individually, starting from the middle and working outwards.

Relubricating guides:
How often you lubricate the guides depends on the load, speed and the amount of exterior dust and dirt. There must be a visible film of grease on the guide rail.
- Close all fastening threads on the guide rails using set screws or screws so that no grease can leak out.
- Fill the grease nipples (on both sides of the guide rail) with grease for the guides until there is a thin film of grease visible on the slide profile the guide rail is moved backwards and forwards.

Information
Observe the “Grease for guide cylinders” safety data sheet.
ID no. 10 550 packaging 8 ml tube
ID no. 3184 packaging 1 kg tin

10 Disassembly and disposal

The local regulations and laws governing the disposal of environmental hazardous waste must be adhered to.
Notes
11 Declaration of conformity

Parker Hannifin Manufacturing Germany GmbH & Co. KG
Pneumatic Division Europe – Orga
Industriestraße 8
70794 Filderstadt (Sieglingen), Germany
Tel +49 (0)7118 1703-xx
info.orga-de@parker.com
www.parker-orga.com
www.parker.com
Ust.-Id.-Nr.: DE 277325745
Steuer-Nr. 349/5747/2105
Commerzbank AG
BLZ: 450 400 35
Konto: 76110371
IBAN: DE14 4804 0038 0761 0371 00
SWIFT: COBADEFF680

Declaration of Conformity
In accordance with EC Directive 94/9/EC (ATEX)

We hereby declare that the
Products: Rodless cylinder
Series: OSP-P
Types: Classic
comply with the regulations of Directive 94/9/EC (ATEX) for equipment or protection systems intended for use in potentially explosive atmospheres.

Product group, category, zones:

Ex II 2GD c T4 T135°C –10°CStA5+60°C

The conformity assessment procedure was carried out according to Directive 94/9/EC (ATEX). The corresponding documentation is deposited at the following notified body 0123:
TÜV Product Service GmbH
Gottlieb-Daimler-Str. 7
D-70794 Filderstadt

The following harmonized standards are applicable:

DIN EN 1127-1: 2011 Explosive atmospheres - Explosion prevention and protection – Part 1: Basic concepts and methodology
DIN EN 13463-1: 2009 Non-electrical equipment for potentially explosive atmospheres – Part 1: Basic methods and requirements
DIN EN 13463-5: 2011 Non-electrical equipment for potentially explosive atmospheres – Part 5: Protection by conductional safety "c"
ISO 8573-1: 2010 Compressed air – Part 1: Contaminants and purity classes

Further applicable regulations: EC Machines Directive (2006/42/EG)

The accompanying operating instructions contain important safety notes and instructions for the commissioning of the above-named mechanical products in compliance with Directive 94/9/EC (ATEX).

Modifications of the above-named products are not permissible, except with the express written agreement of the manufacturer.

If the above-named products are installed in a higher-ranking machine, the new risks arising from their installation must be assessed by the manufacturer of the new machine.

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[Signatures]

Dr. Axel Fröschle
Engineering Manager

Parker Hannifin Manufacturing Germany GmbH & Co. KG - Sitz: Bielefeld - Amtsgericht: Bielefeld: HRA 10659
persönlich haftende Gesellschafterin: Parker Hannifin GmbH - Sitz: Bielefeld - Amtsgericht: Bielefeld HRB 33453
Geschäftsführung der Parker Hannifin GmbH: Dr.-Ing. Hans-Jürgen Haas, Ellen Rashida Secher, Günter Schönk, Klaus Veraart
Vorsitzender des Aufsichtsrates: Hansgeorg Greuner

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