

**Anwenderhinweise
Technische Information**

DE

**User Manual
Technical Information**

EN

**Mode d'emploi
Informations techniques**

FR

**Manual del usuario
Información técnica**

ES

**Istruzioni per l'uso
Informazioni tecniche**

IT

**Zubehör / Accessories
Accessoires / Accesorios / Accessori**



DE	Deutsch	3–8
EN	English	9–14
FR	Français	15–20
ES	Espanñol	21–26
IT	Italiano	27–32
	Zubehör / Accessories / Accessoires Accesorios / Accessori	33–39

Product Specification

Product	Automatic long-term grease and oil lubricator			
Power generation	Hydrogen gas producing drycell			
Working pressure	Max. 5 bar			
Adjustment	Stepless 1–12 months (for standard conditions)			
Dispensing rate	See table on page 11			
Operating temperature	–20 °C to +55 °C (–4 °F to +131 °F) ambient temperature (Note: grease consistency changes with temperature)			
Operation/Usage	Grease dispenser can be installed in any position, even under water. Attention: do not expose to direct heat.			
Certifications/ Approvals	   II 1G Ex ia IIC T6 Ga II 1D Ex ia IIIC T80 °C Da I M1 Ex ia I Ma			
Ingress protection	IP68 (dust- and waterproof)			
Usage period	Activation within 2 years of production date			
Stock temperature	Recommended at 20 °C ±5 °C (65 °F ±5 °F)			
	30 ml	60 ml	125 ml	250 ml
Weight full	~82 g	~115 g	~190 g	~335 g
Weight empty	~55 g	~60 g	~75 g	~111 g

simalube 30



simalube 60



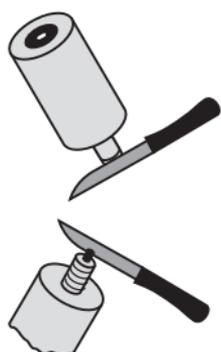
simalube 125



simalube 250



Assembly and Installation



- 1) Open the lubricator outlet by cutting off seal or removing plug.



- Do not remove plug from oil filled units!** Cut off the protruding nipple with a knife; a small black point becomes visible (opening now guaranteed).
- 2) To start the simalube lubricator, set the gas generator to the required dispensing time (stepless in months, 1–12) using a 3 mm allen key. The lubricator is activated once the dispensing time has been set. Take the required dispensing quantity from the tables on page 11.



- 3) Note the starting date on the label using a waterproof pen.
- 4) Clear grease lines and fill them with the appropriate grease. Screw simalube onto the greasing point. If necessary, use accessories shown on page 33–39. Apply safety rules.
- 5) Once the set dispensing time has expired, replace empty lubricator with the same type or refill. Before restarting, clear grease lines and fill them with the appropriate grease.
- 6) The gas generator is sufficient to empty the unit **once, irrespective of the dispensing time set.**

Security note: If the lubricator is started without opening the outlet or in case of blocked grease lines within the installation, the pressure in the lubricator can build up approx. 5 bar. At an overpressure of approx. 6 bar the lubricator breaks at the defined breaking point between housing and bottom. The pressure behind the piston releases and oil or grease can come out at the breaking point.

The correct functioning of the lubricator can only be assured if recommended lubricants (see table on page 14) and original simalube accessories are used, and if the installation, operating and maintenance instructions are closely followed. The manufacturer cannot accept any responsibility for damages as a result of ignoring the instructions mentioned above. **Important:** Before putting simalube into operation, fill extensions and the lubrication lines with the appropriate simalube greases (cartouches SL01 ...SL26) using a grease gun. Use only original accessories.

Temperature / Output rate

The output rate can be adjusted as required, depending on the ambient temperature (see table).

Example: You want to set the dispensing time for a 125 ml simalube for 180 days.
 Ambient temperature: 20 °C Ambient temperature: 55 °C
 Setting: 6 Setting: 7



simalube 30

Dispensing time (days)	30	90	180	270	360
ml/day	1.00	0.33	0.17	0.11	0.08
Temperature	Setting	Setting	Setting	Setting	Setting
-20 °C	+	2	3.5	5.5	7.5
4 °C	+	2.5	5	7.5	10.5
20 °C	1	3	6	9	12
40 °C	1	3	6.5	9.5	-
55 °C	1	3.5	7	10.5	-

- + Use larger dispenser with longer dispensing time
- Smallest possible output rate reached

simalube 60

Dispensing time (days)	30	90	180	270	360
ml/day	2.00	0.67	0.33	0.22	0.17
Temperature	Setting	Setting	Setting	Setting	Setting
-20 °C	+	2	4	6.5	8
4 °C	+	2.5	5.5	9	10.5
20 °C	1	3	6	9	12
40 °C	1	3	6.5	9.5	-
55 °C	1	3.5	7	10.5	-

- + Use larger dispenser with longer dispensing time
- Use smaller dispenser with shorter dispensing time

simalube 125

Dispensing time (days)	30	90	180	270	360
ml/day	4.17	1.39	0.69	0.46	0.35
Temperature	Setting	Setting	Setting	Setting	Setting
-20 °C	+	2	4	6.5	8.5
4 °C	+	2.5	5.5	8	10.5
20 °C	1	3	6	9	12
40 °C	1	3	6.5	9.5	-
55 °C	1	3.5	7	10	-

- + Use larger dispenser with longer dispensing time
- Use smaller dispenser with shorter dispensing time

simalube 250

Dispensing time (days)	30	90	180	270	360
ml/day	8.33	2.78	1.39	0.93	0.69
Temperature	Setting	Setting	Setting	Setting	Setting
-20 °C	++	2	4.5	7.5	9.5
4 °C	++	2.5	5.5	8	10.5
20 °C	1	3	6	9	12
40 °C	1	3	6	9	-
55 °C	1	3.5	6.5	9.5	-

- ++ Use 2-fold adapter
- Use smaller dispenser with shorter dispensing time

The values relate to laboratory conditions, SL01 with no counterpressure. At low temperatures in particular, the values may vary between one grease type and another. The dispensers must be replaced once the dispensing time set has expired, even if they are not completely empty.

The grease quantity dispensed per day is influenced by:

- counterpressure/resistance from the grease lines
- ambient temperature
- viscosity of the grease

Start-up time:

The lubricator requires a certain start-up time until the lubricant is first dispensed. The start-up time varies in line with the volume dispensed, dispenser size and operating temperature selected. At 20 °C ambient temperature and a dispensing time setting of 12 months, the dispenser outputs the lubricant within one week. The start-up time doubles at low temperatures (–20 °C) or with small dispensers (30 ml).

You can reduce the start-up time in such a case by setting a dispensing time on the lubricator of one month for one to two days and then changing to the desired dispensing time.

Calculation Pro:

An online calculation program is available at www.simatec.com (simalube/calculation pro). This tool calculates the right setting for the simalube lubricator if you enter the precise operating parameters.

Notes:

In order for the unit to function reliably, it is important to have clear, filled grease lines. It must be ensured that the grease lines are not blocked. Consequently, the grease lines should always be cleared with a grease gun before starting.

The simalube can be re-adjusted or switched off during operation. The values on the gas generator relate to laboratory conditions (see page 10). Depending on the temperature and setting, it may take several hours (or several days in the case of long-term settings) until the lubricant is first dispensed. The user must check the operation of the simalube regularly.

Grease lines should be no longer than 0.5 m. Recommended bore diameter: 6–8 mm. Resistance in grease lines has to be minimized, narrow passages and right angles should be avoided. Use a mounting support in the event of strong vibrations or high accelerations (for accessories, see pages 33–39). Use the pressure booster (art. 230.1000) simalube IMPULSE with long lubrication lines or high back pressure.

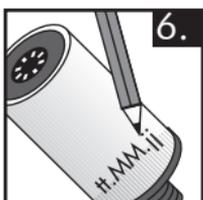
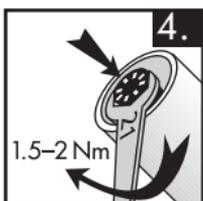
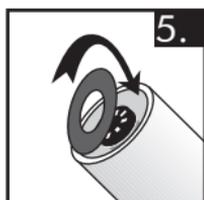
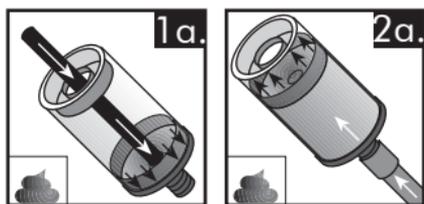
The simalube may only be used to supply **a single** grease point. No branches may be made. Once the lubricator is installed and activated, it must not be removed and mounted onto another lubrication point.

Recycling Instructions



- 1) Unscrew gas generator and dispose of complete unit for battery recycling (see above). **Note:** Do not detach lubricator near an open flame.
- 2) Dispose of empty housing for plastic recycling. If the lubricator still contains lubricant after use, please dispose of it in accordance with local regulations.

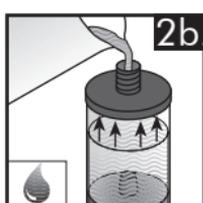
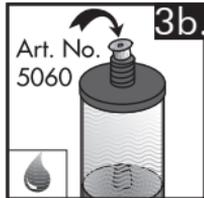
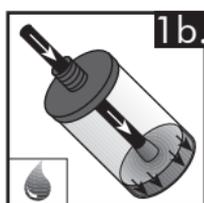
Filling and Refilling (for small quantities)



Filling with grease

- 1a. Push piston all the way forward by blowing gently with compressed air or with the aid of a plastic rod (7 mm diameter), towards the bottom or opening.
- 2a. Screw on refill nipple (art. 290.3012) and connect grease gun, or screw connector nipple (art. 290.3013 or 290.3014) onto grease gun. Keep the dispenser pressed to the adapter during the filling process so that you do not have to screw on the refill nipple again. Press grease into the dispenser. Avoid air bubbles when filling the unit. Continue the filling process until the piston has been pushed all the way back. Do not overfill! **Caution: Lever presses can create pressure of up to 80 bar, which is enough to destroy the dispenser.**
- 3a. Use closing nipple (green) if the dispenser is to be stored.

4. Position gas generator (make sure the O-ring is positioned correctly) and attach firmly with a 1.5–2.0 Nm torque key.
5. Clip in cover disk.
6. Note grease type and filling date on the label.

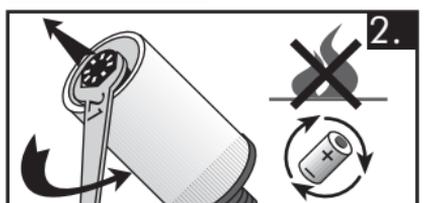
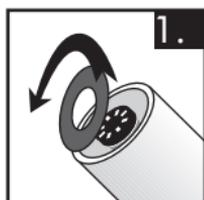


Filling with oil

- 1b. Push the piston all the way back (towards the gas generator).
- 2b. Pour in oil through the opening at the bottom.
- 3b. Position non-return valve (yellow, art. 290.5060).
- 4.–6. Continue as above.

Refilling with grease or oil

1. Remove cover disk.
2. Unscrew gas generator (SW 21) and recycle with other batteries. Never remove near an open flame! Then continue as above for filling with grease or oil.



Note

To ensure that the simalube lubricator operates reliably, only greases that have been tested and approved for use with the simalube should be used. In particular, it is important to ensure the good stability of the grease against bleeding of the base oil and a low consistency class (max. NLGI 2). No guarantee claims will be accepted when dispensers are filled by the user or not explicitly approved lubricants are used. If in doubt, please contact our Technical Department or your local distributor.

Lubricants

The standard lubricant range suitable for simalube includes modern high quality lubricants tested and modified for the special requirements of grease and oil dispensers. Datasheets are available online for all lubricants (www.simatec.com). Please refer to these datasheets for the instructions/safety regulations of the grease/oil manufacturers.

No.	Application	Temperature range (in the area of lubrication)
SL01	Multipurpose grease	-30/+120 °C
SL02	Multipurpose grease with MoS ₂	-25/+130 °C
SL04	High temperature grease	-20/+160 °C
SL06	Fluid grease (EP)	-20/+120 °C
SL09	Biodegradable grease	-20/+80/100 °C
SL10	Food industry grease (NSF H1)	-30/+140 °C
SL14	Chain oil (EP)	-10/+90 °C
SL15	High temperature chain oil (EP)	-30/+250 °C
SL16	Machine oil	-20/+100 °C
SL18	Food industry oil (NSF H1)	-15/+150 °C
SL19	Biodegradable chain oil	-15/+100 °C
SL24	Grease for a wide temperature range (EP)	-30/+140 °C
SL25	High temperature grease	-20/+160 °C
SL26	High performance grease (EP)	-20/+150 °C

simalube can also be delivered filled with other lubricants or as an empty unit. Ask for advice. The operation of simalube with oils of different viscosities is also possible.

simalube has been safety inspected and approved by the following institutions:

- TÜV Product Service GmbH, Germany, Nr. Z1 11 11 29499 018
- TÜV Product Service GmbH, Germany, Nr. EX2 16 03 29499 020
- DEKRA Certification B.V., Netherlands, Nr. KEMA 09ATEX0098
II 1 G Ex ia IIC T6 Ga
-  II 1 D Ex ia IIIC T80 °C Da
I M1 Ex ia I Ma

EU Declaration of Conformity

simatec ag

Stadthof 2 in CH-3380 Wangen a. Aare
declares that the

single point lubricators

simalube & simalube multipoint

are designed and manufactured in
accordance with

Directive 2014/34/EU of the European Parliament and the Council on the harmonisation of the laws of the Member States relating to equipment and protective systems intended for use in potentially explosive atmospheres.

The following standards have been applied:

EN 60079-0:2012 + A11

EN 60079-11:2012

EN 60079-26:2007

EN 50303:2000

Notified Body:

**DEKRA Certification B.V.
NL-6825 MJ Arnhem**

Certificate No.

KEMA 09ATEX0098

Wangen a. Aare, 16.04.2016



Mischa Wyssmann, Managing Director / CEO

Manufactured by:

simatec ag

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www.simalube.com

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Zubehör / Accessories / Accessoires Accesorios / Accessori

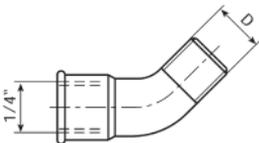
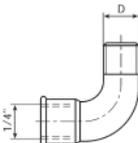
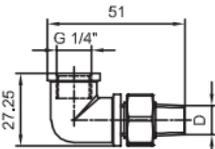
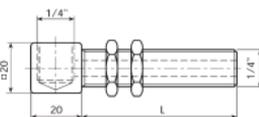
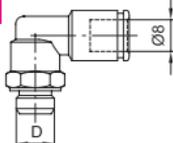
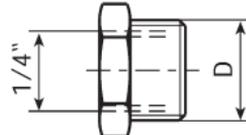
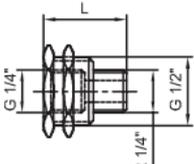
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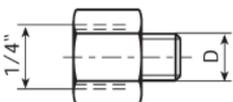
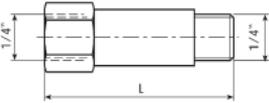
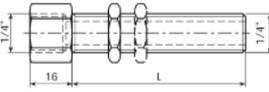
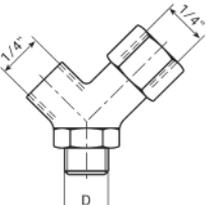
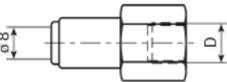
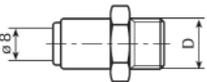
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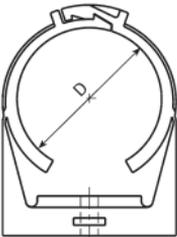
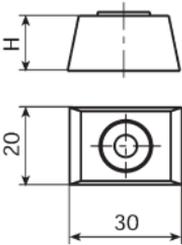
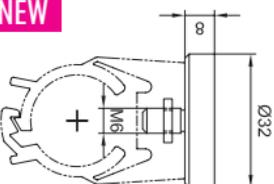
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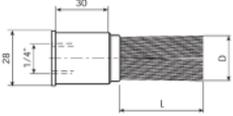
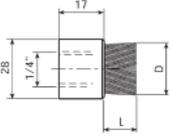
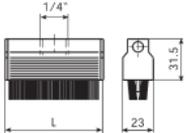
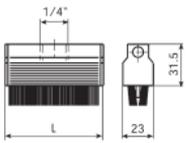
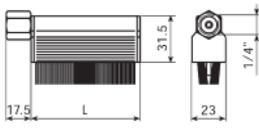
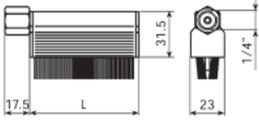
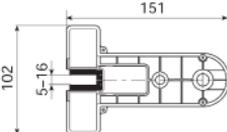
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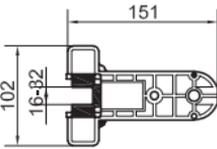
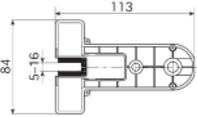
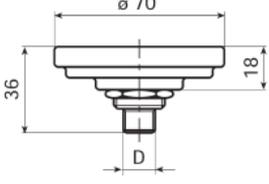
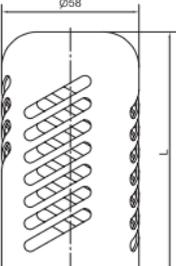
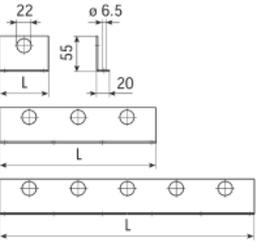
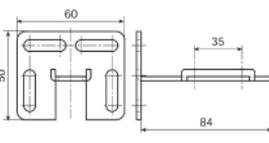
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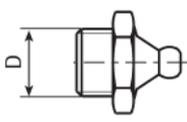
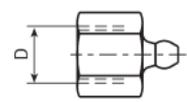
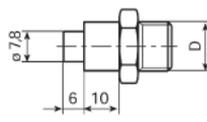
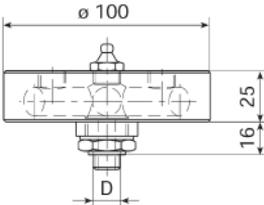
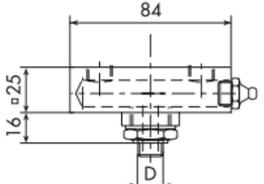
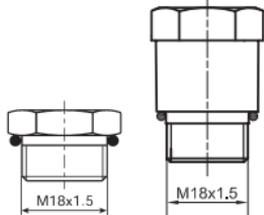
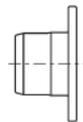
	<p>Bogen 45° / Bent connection 45° / Coude 45° / Codo 45° / Gomito 45°</p> <table border="1"> <tr> <td>D</td> <td>R 1/4</td> </tr> <tr> <td>Nr.</td> <td>290.1001</td> </tr> </table>	D	R 1/4	Nr.	290.1001		
D	R 1/4						
Nr.	290.1001						
	<p>Bogen 90° / Bent connection 90° / Coude 90° / Codo 90° / Gomito 90°</p> <table border="1"> <tr> <td>D</td> <td>R 1/4</td> </tr> <tr> <td>Nr.</td> <td>290.1002</td> </tr> </table>	D	R 1/4	Nr.	290.1002		
D	R 1/4						
Nr.	290.1002						
	<p>Bogen 90° schwenkbar / Bent connection 90° swiveling / Coude 90° pivotant / Codo 90° orientable / Gomito 90° orientabile</p> <table border="1"> <tr> <td>D</td> <td>R 1/4</td> </tr> <tr> <td>Nr.</td> <td>290.1004</td> </tr> </table>	D	R 1/4	Nr.	290.1004		
D	R 1/4						
Nr.	290.1004						
	<p>90° Anschluss mit Gewinde inkl. 2 Muttern (nur für Öl) 90° connection with thread incl. 2 nuts (only for oil) Pièce de raccordement avec filetage 90° incl. 2 écrous (pour huile) Conector 90° con rosca incl. 2 tuercas (solo para aceite) Raccordo 90° filettato incl. 2 dadi (solo per l'olio)</p> <table border="1"> <tr> <td>L</td> <td>70</td> <td>[mm]</td> </tr> <tr> <td>Nr.</td> <td>290.1005</td> <td></td> </tr> </table>	L	70	[mm]	Nr.	290.1005	
L	70	[mm]					
Nr.	290.1005						
<p>NEW</p> 	<p>Winkelverschraubung drehbar / Elbow rotary / Raccord fileté coude rotatif / Conector rápido ángulo y rotativo / Gomito rotante</p> <table border="1"> <tr> <td>D</td> <td>G 1/8</td> <td>G 1/4</td> </tr> <tr> <td>Nr.</td> <td>290.1007</td> <td>290.1008</td> </tr> </table>	D	G 1/8	G 1/4	Nr.	290.1007	290.1008
D	G 1/8	G 1/4					
Nr.	290.1007	290.1008					
	<p>Anschlussnippel / Connecting nipple / Raccord / Niple de conexión / Nippolo di raccordo</p> <table border="1"> <tr> <td>D</td> <td>G 3/8</td> <td>G 1/2</td> </tr> <tr> <td>Nr.</td> <td>290.1010</td> <td>290.1011</td> </tr> </table>	D	G 3/8	G 1/2	Nr.	290.1010	290.1011
D	G 3/8	G 1/2					
Nr.	290.1010	290.1011					
	<p>Befestigungsnippel G^{1/2}"-R^{1/4}" / Fixation nipple G^{1/2}"-R^{1/4}" / Raccord de fixation G^{1/2}"-R^{1/4}" / Niple de montaje G^{1/2}"-R^{1/4}" / Nippolo di montaggio G^{1/2}"-R^{1/4}"</p> <table border="1"> <tr> <td>L</td> <td>25</td> <td>[mm]</td> </tr> <tr> <td>Nr.</td> <td>290.1015</td> <td></td> </tr> </table>	L	25	[mm]	Nr.	290.1015	
L	25	[mm]					
Nr.	290.1015						

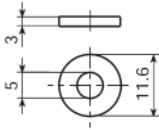
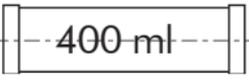
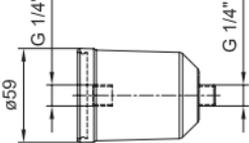
	<p>Reduziernippel / Reducing nipple / Raccord de reduction / Niple de reducción / Nipplo di riduzione</p> <table border="1" data-bbox="378 265 973 408"> <tbody> <tr> <td>D</td> <td>G 1/8</td> <td>G 1/4</td> <td>M6</td> <td>M8</td> <td>M8x1</td> </tr> <tr> <td>Nr.</td> <td>290.1020</td> <td>290.1021</td> <td>290.1022</td> <td>290.1023</td> <td>290.1024</td> </tr> <tr> <td>D</td> <td>M10</td> <td>M10x1</td> <td>M12</td> <td>M12x1.5</td> <td>UNF 1/4</td> </tr> <tr> <td>Nr.</td> <td>290.1025</td> <td>290.1026</td> <td>290.1027</td> <td>290.1028</td> <td>290.1121</td> </tr> </tbody> </table>	D	G 1/8	G 1/4	M6	M8	M8x1	Nr.	290.1020	290.1021	290.1022	290.1023	290.1024	D	M10	M10x1	M12	M12x1.5	UNF 1/4	Nr.	290.1025	290.1026	290.1027	290.1028	290.1121
D	G 1/8	G 1/4	M6	M8	M8x1																				
Nr.	290.1020	290.1021	290.1022	290.1023	290.1024																				
D	M10	M10x1	M12	M12x1.5	UNF 1/4																				
Nr.	290.1025	290.1026	290.1027	290.1028	290.1121																				
	<p>Verlängerung / Extension / Rallonge / Prolongador / Prolunga</p> <table border="1" data-bbox="378 521 973 582"> <tbody> <tr> <td>L</td> <td>10</td> <td>35</td> <td>50</td> <td>[mm]</td> </tr> <tr> <td>Nr.</td> <td>290.1021</td> <td>290.1040</td> <td>290.1041</td> <td></td> </tr> </tbody> </table>	L	10	35	50	[mm]	Nr.	290.1021	290.1040	290.1041															
L	10	35	50	[mm]																					
Nr.	290.1021	290.1040	290.1041																						
	<p>Schottverschraubung 25 mm, 1 Mutter/60 mm, 2 Muttern / Screwed connection with hole 25 mm, 1 nut/60 mm, 2 nuts / Raccord de traversée 25 mm, 1 écrou/60 mm, 2 écrous / Tornillo de conexión 25 mm, 1 tuerca/60 mm, 2 tuercas / Raccordo filettato c. foro 25 mm, 1 dado/60 mm, 2 dadi</p> <table border="1" data-bbox="378 786 973 848"> <tbody> <tr> <td>L</td> <td>25</td> <td>60</td> <td>[mm]</td> </tr> <tr> <td>Nr.</td> <td>290.1045</td> <td>290.1046</td> <td></td> </tr> </tbody> </table>	L	25	60	[mm]	Nr.	290.1045	290.1046																	
L	25	60	[mm]																						
Nr.	290.1045	290.1046																							
	<p>Y-Anschlussstück enthält Reduziernippel 290.1021 / Y-manifold contains reduction 290.1021 / Raccord Y contient raccord de réduction 290.1021 / Conexión en Y contiene reducción 290.1021 / Raccordo a Y contiene nipplo di riduzione 290.1021</p> <table border="1" data-bbox="378 1022 973 1083"> <tbody> <tr> <td>D</td> <td>R 1/4</td> </tr> <tr> <td>Nr.</td> <td>290.1050</td> </tr> </tbody> </table>	D	R 1/4	Nr.	290.1050																				
D	R 1/4																								
Nr.	290.1050																								
	<p>Steckverschraubung für Schlauch ø 8 mm / Quick connection for hose ø 8 mm / Raccord fileté pour tuyau ø 8 mm / Conector rápido para manguera de ø 8 mm / Raccordo ad innesto per tubo ø 8 mm</p> <table border="1" data-bbox="378 1257 973 1318"> <tbody> <tr> <td>D</td> <td>G 1/4</td> </tr> <tr> <td>Nr.</td> <td>290.1060</td> </tr> </tbody> </table>	D	G 1/4	Nr.	290.1060																				
D	G 1/4																								
Nr.	290.1060																								
	<p>Steckverschraubung für Schlauch ø 8 mm / Quick connection for hose ø 8 mm / Raccord fileté pour tuyau ø 8 mm / Conector rápido para manguera de ø 8 mm / Raccordo ad innesto per tubo ø 8 mm</p> <table border="1" data-bbox="378 1492 973 1553"> <tbody> <tr> <td>D</td> <td>G 1/8</td> <td>G 1/4</td> <td>G 3/8</td> </tr> <tr> <td>Nr.</td> <td>290.1070</td> <td>290.1071</td> <td>290.1072</td> </tr> </tbody> </table>	D	G 1/8	G 1/4	G 3/8	Nr.	290.1070	290.1071	290.1072																
D	G 1/8	G 1/4	G 3/8																						
Nr.	290.1070	290.1071	290.1072																						
	<p>Schlauch erhältlich pro Meter / Hose available by the metre / Tuyau disponible au mètre / Tube disponibile por metro / Tube disponibile al metro</p> <table border="1" data-bbox="378 1696 973 1757"> <tbody> <tr> <td>L</td> <td>per metre</td> <td>ø 8/6 mm</td> </tr> <tr> <td>Nr.</td> <td>290.2000/...m</td> <td></td> </tr> </tbody> </table>	L	per metre	ø 8/6 mm	Nr.	290.2000/...m																			
L	per metre	ø 8/6 mm																							
Nr.	290.2000/...m																								

	<p>Schlauch für Temperaturen bis 260 °C / Hose for temperatures up to 260 °C / Tuyau pour des températures jusqu'à 260 °C / Manguera para temperaturas hasta 260 °C / Tubo flessibile per temperature fino a 260 °C</p> <table border="1"> <tr> <td>L</td> <td>per metre</td> <td>ø 8/6 mm</td> </tr> <tr> <td>Nr.</td> <td colspan="2">290.2002/...m</td> </tr> </table>	L	per metre	ø 8/6 mm	Nr.	290.2002/...m			
L	per metre	ø 8/6 mm							
Nr.	290.2002/...m								
	<p>Schlauch für kleine Radien / Hose for small bend radius / Tuyau pour petit rayon de courbure / Manguera a para las esquinas pronunciadas / Tubo flessibile per curve a raggio stretto</p> <table border="1"> <tr> <td>L</td> <td>per meter</td> <td>ø 8/6 mm</td> </tr> <tr> <td>Nr.</td> <td colspan="2">290.2004/...m</td> </tr> </table>	L	per meter	ø 8/6 mm	Nr.	290.2004/...m			
L	per meter	ø 8/6 mm							
Nr.	290.2004/...m								
	<p>Halteschelle für simalube/Pinsel Kunststoff / Clamp for simalube/round brush Plastic / Bride de fixation pour simalube/pinceau Plastique / Abrazadera para simalube/escobilla cilíndrica Plástico / Fascetta di fissaggio per simalube/spazzola cilindrica Plastica</p> <table border="1"> <tr> <td>D</td> <td>50</td> <td>28</td> <td>[mm]</td> </tr> <tr> <td>Nr.</td> <td>290.2010</td> <td>290.2013</td> <td></td> </tr> </table>	D	50	28	[mm]	Nr.	290.2010	290.2013	
D	50	28	[mm]						
Nr.	290.2010	290.2013							
	<p>Adapter für Schelle (60 mm) Kunststoff / Adapter for clamp (60 mm) Plastic / Adaptateur de fixation (60 mm) Plastique / Adaptador para abrazadera (60 mm) Plástico / Adattatore per fascetta (60 mm) Plastica</p> <table border="1"> <tr> <td>D</td> <td>50</td> <td>[mm]</td> </tr> <tr> <td>Nr.</td> <td colspan="2">290.2012</td> </tr> </table>	D	50	[mm]	Nr.	290.2012			
D	50	[mm]							
Nr.	290.2012								
	<p>Distanzhalter zu Halteschelle für Pinsel 290.2013 / Distance holder to clamp for round brush 290.2013 / Entretoise pour bride de fixation pour pinceau 290.2013 / Espaciador para abrazadera p. escobilla cilíndrica 290.2013 / Distanziatore per fascetta per spazzola cilindrica 290.2013</p> <table border="1"> <tr> <td>H</td> <td>15</td> <td>[mm]</td> </tr> <tr> <td>Nr.</td> <td colspan="2">290.2014</td> </tr> </table>	H	15	[mm]	Nr.	290.2014			
H	15	[mm]							
Nr.	290.2014								
<p>NEW</p> 	<p>Magnetfuss zu Halteschelle / Magnetic fixture for clamps / Fixation magnétique pour brides / Fijación magnética para abrazadera / Attacco magnetico per fascette</p> <table border="1"> <tr> <td>Nr.</td> <td colspan="2">290.2019</td> </tr> </table>	Nr.	290.2019						
Nr.	290.2019								
	<p>Rückschlagventil / Non-return valve / Clapet antiretour / Válvula de retención / Valvola di non ritorno</p> <table border="1"> <tr> <td>D</td> <td>G 1/8</td> <td>G 1/4</td> </tr> <tr> <td>Nr.</td> <td>290.2020</td> <td>290.2021</td> </tr> </table>	D	G 1/8	G 1/4	Nr.	290.2020	290.2021		
D	G 1/8	G 1/4							
Nr.	290.2020	290.2021							

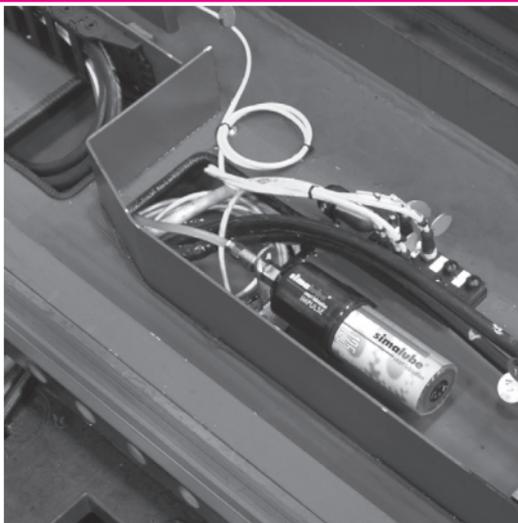
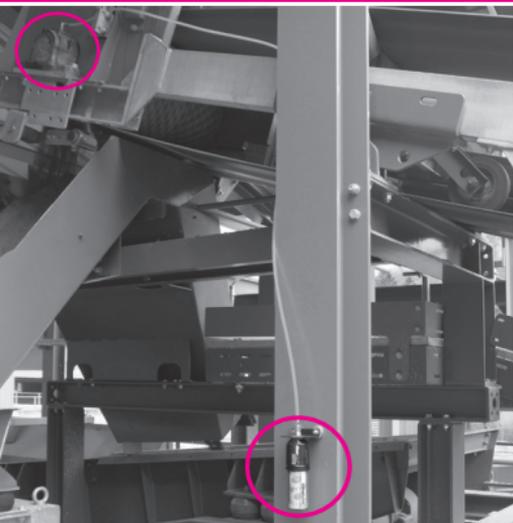
	<p>Pinzel / Round brush / Pinceau / Pincel / Spazzola cilindrica</p> <p>DxL \varnothing 25x45 [mm]</p> <p>Nr. 290.2034</p>												
	<p>Pinzel kurz / Round brush short / Pinceau court / Pincel / Spazzola cilindrica</p> <p>DxL \varnothing 25x15 [mm]</p> <p>Nr. 290.2041</p>												
	<p>Bürste / Brush / Brosses / Cepillo / Spazzola rettangolare</p> <table border="1" data-bbox="378 623 981 684"> <tr> <td>L</td> <td>40</td> <td>70</td> <td>100</td> <td>25</td> <td>[mm]</td> </tr> <tr> <td>Nr.</td> <td>290.2035</td> <td>290.2036</td> <td>290.2037</td> <td>290.2038</td> <td></td> </tr> </table>	L	40	70	100	25	[mm]	Nr.	290.2035	290.2036	290.2037	290.2038	
L	40	70	100	25	[mm]								
Nr.	290.2035	290.2036	290.2037	290.2038									
	<p>Bürste für die Lebensmittelindustrie / Brush for food applications / Brosses pour des applications alimentaire / Cepillo alimentición / Spazzola rettangolare alimentare</p> <table border="1" data-bbox="378 858 981 919"> <tr> <td>L</td> <td>40</td> <td>70</td> <td>100</td> <td>25</td> <td>[mm]</td> </tr> <tr> <td>Nr.</td> <td>290.2035-FN</td> <td>290.2036-FN</td> <td>290.2037-FN</td> <td>290.2038-FN</td> <td></td> </tr> </table>	L	40	70	100	25	[mm]	Nr.	290.2035-FN	290.2036-FN	290.2037-FN	290.2038-FN	
L	40	70	100	25	[mm]								
Nr.	290.2035-FN	290.2036-FN	290.2037-FN	290.2038-FN									
	<p>Bürste, Anschluss seitlich / Brush, lateral connection / Brosses, à connexion latérale / Cepillo, conexión lateral / Spazzola rettangolare, attacco laterale</p> <table border="1" data-bbox="378 1073 981 1134"> <tr> <td>L</td> <td>40</td> <td>70</td> <td>100</td> <td>25</td> <td>[mm]</td> </tr> <tr> <td>Nr.</td> <td>290.2035-S</td> <td>290.2036-S</td> <td>290.2037-S</td> <td>290.2038-S</td> <td></td> </tr> </table>	L	40	70	100	25	[mm]	Nr.	290.2035-S	290.2036-S	290.2037-S	290.2038-S	
L	40	70	100	25	[mm]								
Nr.	290.2035-S	290.2036-S	290.2037-S	290.2038-S									
	<p>Bürste Anschluss seitlich für die Lebensmittelindustrie / Brush lateral connection for food applications / Brosses à connexion latérale pour applications alimentaire / Cepillo conexión lateral alimentación / Spazzola rettangolare, attacco laterale alimentare</p> <table border="1" data-bbox="378 1338 981 1400"> <tr> <td>L</td> <td>40</td> <td>70</td> <td>100</td> <td></td> <td>[mm]</td> </tr> <tr> <td>Nr.</td> <td>290.2035-SFN</td> <td>290.2036-SFN</td> <td>290.2037-SFN</td> <td></td> <td></td> </tr> </table>	L	40	70	100		[mm]	Nr.	290.2035-SFN	290.2036-SFN	290.2037-SFN		
L	40	70	100		[mm]								
Nr.	290.2035-SFN	290.2036-SFN	290.2037-SFN										
	<p>Aufzugsbürste 5-16 mm, Höhe 32 mm / Elevator brush 5-16 mm, height 32 mm / Brosse pour ascenseurs 5-16 mm, hauteur 32 mm / Escobilla para ascensores 5-16 mm, altura 32 mm / Spazzola per guida ascensori 5-16 mm, alta 32 mm</p> <p>Nr. 290.2039</p>												

	<p>Aufzugsbürste 16–32 mm, Höhe 32 mm / Elevator brush 16–32 mm, height 32 mm / Brosse pour ascenseurs 16–32 mm, hauteur 32 mm / Escobilla para ascensores 16–32 mm, altura 32 mm / Spazzola per guida ascensori 16–32 mm, alta 32 mm</p> <table border="1" data-bbox="378 357 981 431"> <tr> <td>Nr.</td> <td>290.2044</td> </tr> </table>	Nr.	290.2044													
Nr.	290.2044															
	<p>Aufzugsbürste klein 5–16 mm, Höhe 32 mm / Elevator brush small 5–16 mm, height 32 mm / Petite brosse pour ascenseurs 5–16 mm, hauteur 32 mm / Escobilla pequeña para ascensores 5–16 mm, altura 32 mm / Spazzola piccola per guida ascensori 5–16 mm, alta 32 mm</p> <table border="1" data-bbox="378 623 981 690"> <tr> <td>Nr.</td> <td>290.2042</td> </tr> </table>	Nr.	290.2042													
Nr.	290.2042															
	<p>Montagesupport für alle simalube Grössen / Mounting support for all simalube sizes / Support de montage pour toutes les tailles de simalube / Soporte de montaje para todos los tamaños de simalube / Supporto di montaggio per simalube di ogni dimensione</p> <table border="1" data-bbox="378 889 981 950"> <tr> <td>D</td> <td>R 1/4</td> </tr> <tr> <td>Nr.</td> <td>290.2080</td> </tr> </table>	D	R 1/4	Nr.	290.2080											
D	R 1/4															
Nr.	290.2080															
	<p>Schutzhaube zu Montagesupport 290.2080 / Protective cover to mounting support 290.2080 / Capot de protection pour support de montage 290.2080 / Cubierta protectora para soporte de montaje 290.2080 / Calotta protezione per supporto montaggio 290.2080</p> <table border="1" data-bbox="378 1154 981 1248"> <tr> <td></td> <td>≤125 ml</td> <td>250 ml</td> <td></td> </tr> <tr> <td>L</td> <td>105</td> <td>195</td> <td>mm</td> </tr> <tr> <td>Nr.</td> <td>290.2081</td> <td>290.2085</td> <td></td> </tr> </table>		≤125 ml	250 ml		L	105	195	mm	Nr.	290.2081	290.2085				
	≤125 ml	250 ml														
L	105	195	mm													
Nr.	290.2081	290.2085														
	<p>Befestigungswinkel zu Montagesupport simalube / Bracket to mounting support simalube / Equerre de fixation pour support de montage simalube / Soporte de montaje se utiliza con el soporte simalube / Staffa di sostegno per supporto di montaggio simalube</p> <table border="1" data-bbox="378 1441 981 1547"> <tr> <td></td> <td>1x</td> <td>3x</td> <td>5x</td> <td></td> </tr> <tr> <td>L</td> <td>75</td> <td>240</td> <td>390</td> <td>mm</td> </tr> <tr> <td>Nr.</td> <td>290.2082</td> <td>290.2083</td> <td>290.2084</td> <td></td> </tr> </table>		1x	3x	5x		L	75	240	390	mm	Nr.	290.2082	290.2083	290.2084	
	1x	3x	5x													
L	75	240	390	mm												
Nr.	290.2082	290.2083	290.2084													
	<p>Support universell verstellbar / Bracket universally adjustable / Support, réglage universel / Soporte universal regulable / Staffa con regolazione universale</p> <table border="1" data-bbox="378 1686 981 1945"> <tr> <td>Nr.</td> <td>290.2800</td> </tr> </table>	Nr.	290.2800													
Nr.	290.2800															

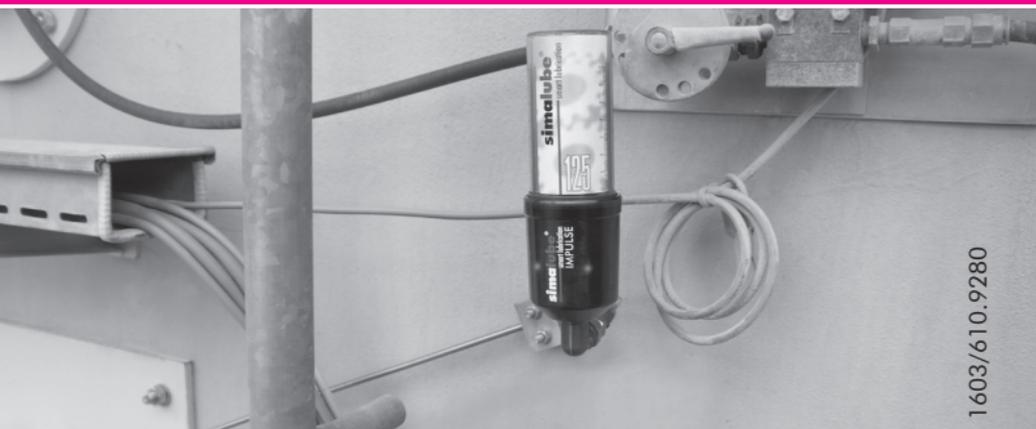
	<p>Schmiernippel zum Durchschmieren und Füllen der Fettkanäle / Connector nipple for cleaning and filling of grease lines / Graisseur pour nettoyer et remplir les canaux de graissage / Niple de conexión para limpiar y llenar las tuberías de lubricación / Nipplo di connessione per ingrassare e riempire i condotti di ingrassaggio</p> <table border="1" data-bbox="378 357 953 414"> <tr> <td>D</td> <td>R 1/4</td> </tr> <tr> <td>Nr.</td> <td>290.3011</td> </tr> </table>	D	R 1/4	Nr.	290.3011						
D	R 1/4										
Nr.	290.3011										
	<p>Nachfüllnippel zum Nachfüllen des simalube / Refill nipple for refilling of simalube / Graisseur de recharge pour la recharge du simalube / Niple de recarga para la recarga del simalube / Nipplo di ricarica per la ricarica del simalube</p> <table border="1" data-bbox="378 582 953 639"> <tr> <td>D</td> <td>G 1/4</td> </tr> <tr> <td>Nr.</td> <td>290.3012</td> </tr> </table>	D	G 1/4	Nr.	290.3012						
D	G 1/4										
Nr.	290.3012										
	<p>Nachfüllnippel zum Befüllen des simalube mit Fettpressenfüller / Refill nipple to grease gun filler for filling simalube / Graisseur de recharge pour appareil de remplissage de pompes à graisse / Niple de recarga para llenado de simalubes / Nipplo di ricarica per riempire il simalube con un caricatore per pompa a grasso</p> <table border="1" data-bbox="378 868 953 925"> <tr> <td>D</td> <td>R 1/4</td> <td>R 3/8</td> </tr> <tr> <td>Nr.</td> <td>290.3013</td> <td>290.3014</td> </tr> </table>	D	R 1/4	R 3/8	Nr.	290.3013	290.3014				
D	R 1/4	R 3/8									
Nr.	290.3013	290.3014									
	<p>4-fach-Adapter / 4-fold adapter / Adaptateur quadruple / Adaptador cuádruple / Adattatore quadruplo</p> <table border="1" data-bbox="378 1083 953 1140"> <tr> <td>D</td> <td>G 1/2</td> <td>G 1/4</td> </tr> <tr> <td>Nr.</td> <td>290.4100</td> <td>290.4101</td> </tr> </table>	D	G 1/2	G 1/4	Nr.	290.4100	290.4101				
D	G 1/2	G 1/4									
Nr.	290.4100	290.4101									
	<p>2-fach-Adapter / 2-fold adapter / Adaptateur double / Adaptador doble / Adattatore doppio</p> <table border="1" data-bbox="378 1297 953 1355"> <tr> <td>D</td> <td>G 1/2</td> <td>G 1/4</td> </tr> <tr> <td>Nr.</td> <td>290.4102</td> <td>290.4103</td> </tr> </table>	D	G 1/2	G 1/4	Nr.	290.4102	290.4103				
D	G 1/2	G 1/4									
Nr.	290.4102	290.4103									
	<p>Antriebskopf zur Wiederbefüllung / Gas generator for refilling / Tête de commande pour la recharge / Celda generadora de gas para recarga / Testa di comando per ricarica</p> <table border="1" data-bbox="378 1543 953 1600"> <tr> <td>Nr.</td> <td>30 ml</td> <td>60 ml</td> <td>125 ml</td> <td>250 ml</td> </tr> <tr> <td></td> <td>220.5004</td> <td>220.5006</td> <td>220.5008</td> <td>220.5010</td> </tr> </table>	Nr.	30 ml	60 ml	125 ml	250 ml		220.5004	220.5006	220.5008	220.5010
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	<p>Verschlussstopfen Kunststoff / Closing nipple Plastic / Bouchon de fermeture Plastique / Tapón de cierre Plástico / Tappino di chiusura Plastica</p> <table border="1" data-bbox="378 1808 953 1845"> <tr> <td>Nr.</td> <td>290.5050</td> </tr> </table>	Nr.	290.5050								
Nr.	290.5050										

	<p>Rückschlagventilstopfen Kunststoff / Non-return valve plug Plastic / Bouchon antiretour Plastique / Tapón de válvula de antiretorno Plástico / Tappo valvola di non ritorno Plastica</p> <hr/> <p>Nr. 290.5060</p>																								
	<p>Dichtungsring / Gasket ring / Joint d'étanchéité / Arandela (golilla) / Rondella</p> <hr/> <p>Nr. 290.5080</p>																								
	<p>Fettkartusche / Grease Cartridge / Cartouche de graisse / Cartucho de grasa / Cartuccia di grasso</p> <table border="1" data-bbox="376 684 975 827"> <tr> <td></td> <td>SL01</td> <td>SL02</td> <td>SL04</td> <td>SL06</td> <td>SL09</td> </tr> <tr> <td>Nr.</td> <td>290.7001</td> <td>290.7002</td> <td>290.7004</td> <td>290.7006</td> <td>290.7009</td> </tr> <tr> <td></td> <td>SL10</td> <td>SL24</td> <td>SL25</td> <td>SL26</td> <td></td> </tr> <tr> <td>Nr.</td> <td>290.7010</td> <td>290.7024</td> <td>290.7025</td> <td>290.7026</td> <td></td> </tr> </table>		SL01	SL02	SL04	SL06	SL09	Nr.	290.7001	290.7002	290.7004	290.7006	290.7009		SL10	SL24	SL25	SL26		Nr.	290.7010	290.7024	290.7025	290.7026	
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	<p>Ölflasche 0,5 l / Oil bottle 0.5 l / Bouteille d'huile 0,5 l / Botella de aceite 0,5 l / Bottiglia di olio 0,5 l</p> <table border="1" data-bbox="376 946 975 1007"> <tr> <td></td> <td>SL14</td> <td>SL15</td> <td>SL16</td> <td>SL18</td> <td>SL19</td> </tr> <tr> <td>Nr.</td> <td>290.7114</td> <td>290.7115</td> <td>290.7116</td> <td>290.7118</td> <td>290.7119</td> </tr> </table>		SL14	SL15	SL16	SL18	SL19	Nr.	290.7114	290.7115	290.7116	290.7118	290.7119												
	SL14	SL15	SL16	SL18	SL19																				
Nr.	290.7114	290.7115	290.7116	290.7118	290.7119																				
<p>NEW</p> 	<p>simalube IMPULSE, Druckverstärker / Pressure booster / Amplificateur de pression / Amplificador de presión / Potenziatore di pressione</p> <hr/> <p>Nr. 230.1000</p>																								

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