

**Translation of the
Original Operating Instructions
perma
PRO / PRO C MP-2**

The perma PRO / PRO C MP-2 lubrication system supplies 2 lubrication points with the same amount of lubricant. It is mainly used for lubrication on motors, fans, and pumps.

Please note that this perma PRO / PRO C MP-2 operating manual must always be used together with the operating manual for perma PRO / PRO C. The basic function of perma PRO / PRO C does not change. The only difference is that **the lubricant amount is distributed evenly between two lubrication points.**

The perma PRO / PRO C operating manual remains valid. Any differences of the 2-point distribution are covered in this operating manual which should be used in addition to the perma PRO / PRO C operating manual.

ATTENTION!



The lubrication system perma PRO / PRO C MP-2 only functions with the distributor PRO / PRO C MP-2. If the distributor is disconnected the lubrication system does not work.



Technical Data

	perma PRO / PRO C MP-2 Distributor
Length	67 mm
Diameter	49 mm
perma PRO / PRO C MP-2 Distributor	265 g
Number of outlets	2
Maximum working pressure	25 bar (360 psi)
Lubricants	Grease up to rated consistency NLGI 2
Ambient temperature	- 20 °C to + 60 °C / - 4 °F to + 140 °F
Connection thread for grease line	G1/8 inside
Diameter of grease line	8 x 1,5 / Inside Ø 5 mm
Length of the grease line	admissible total length per line up to 5 m. For details please regard operating manual PRO / PRO C, chapter 3, page 7
Emission sound pressure level	< 70 dB(A)
Storage conditions	Dry, dust-free at temperatures of + 20 °C ± 5 °C / 68 °F ± 9 °F
Discharge amount per outlet / stroke	0,25 cc

ATTENTION!



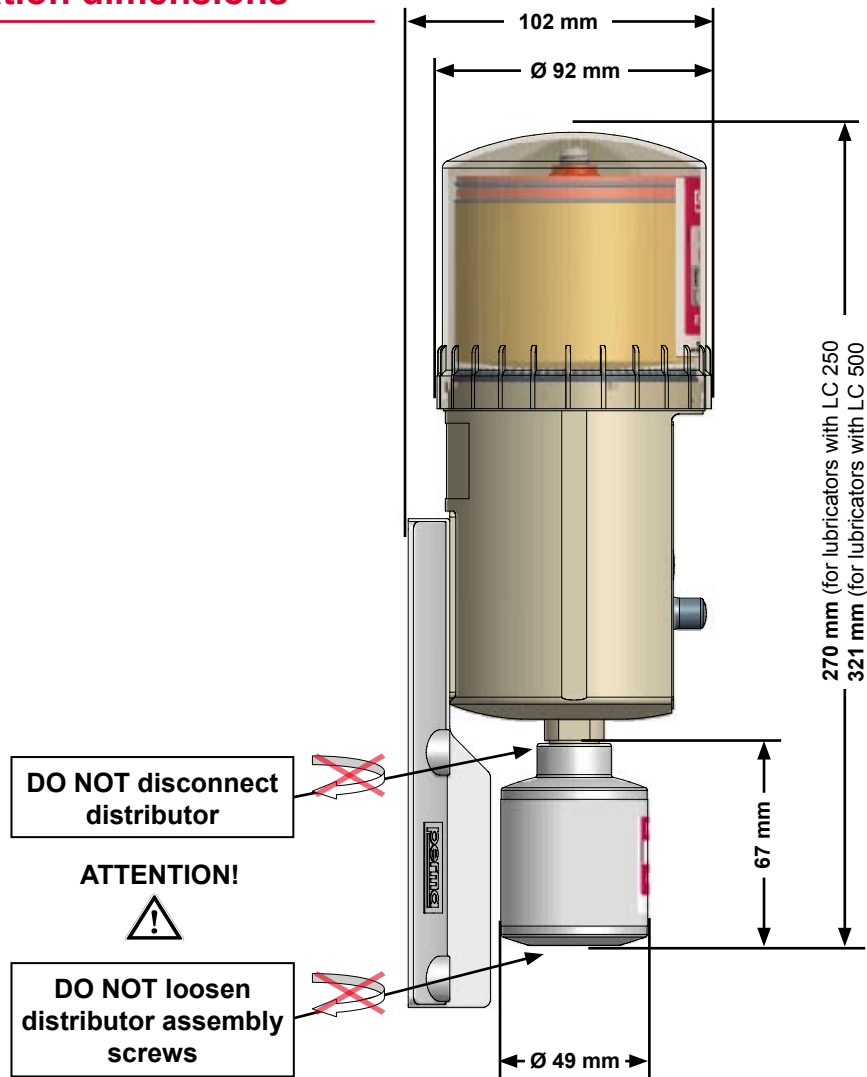
Never close an outlet and never connect a grease line with more than 25 bar counter pressure. Doing so will cause a system malfunction.

Delivery / content

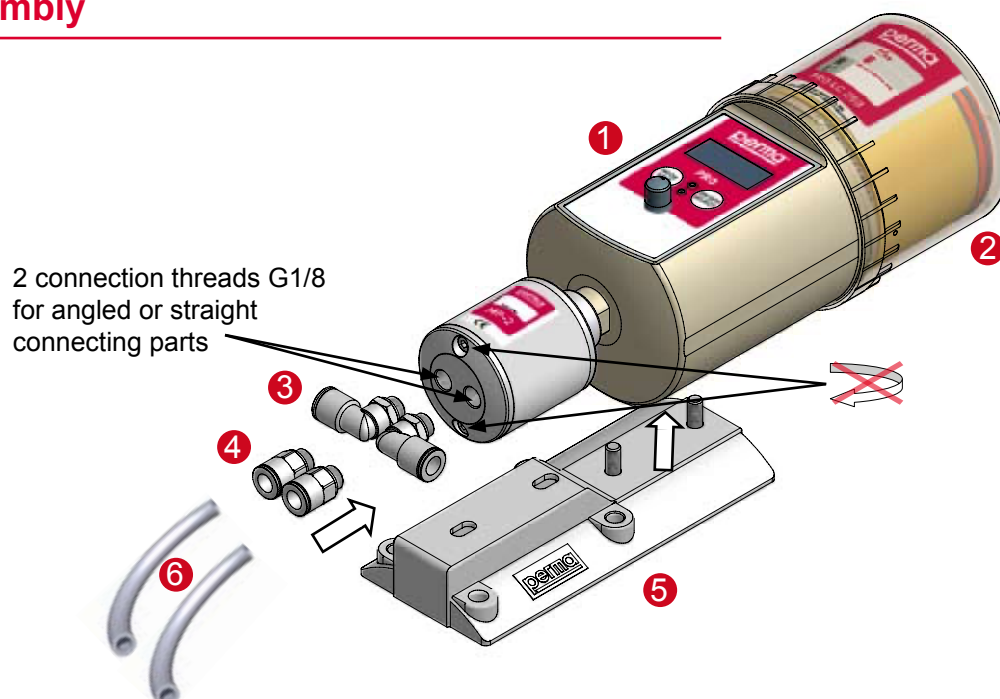
Amount	Part name	Order number	Part
1	PRO MP-2 Basic system	2290 008 690	
	- PRO Drive with PRO MP-2 Distributor.....	.....	①
	- PRO MP-2 Accessory Box:		
2	Tube Connector G1/8a for tube aØ 8 mm 90°.....	.....	③
2	Tube Connector G1/8a for tube aØ 8 mm straight.....	.....	④
1	- PRO Mounting Device.....	.....	⑤
1	- PRO Battery B.....	.....Not shown in picture.....	
1	PRO C MP-2 Basic system	2290 009 690	
	- PRO C Drive with PRO MP-2 Distributor.....	.....Not shown in picture.....	
	- PRO MP-2 Accessory Box:		
2	Tube Connector G1/8a for tube aØ 8 mm 90°.....	.....	③
2	Tube Connector G1/8a for tube aØ 8 mm straight.....	.....	④
1	- PRO Mounting Device.....	.....	⑤
1	- PRO C M12 Cable 5 m.....	.....Not shown in picture.....	
Following parts must also be ordered for a complete system:		*)XXXX=grease number	
1	PRO LC 250	PRO LC 500	
	PRO Cover for LC 250	PRO Cover for LC 500	
		222 XXXX*) 608	223 XXXX*) 609
		2299 101 000	2299 102 000
			②
	PRO tube 8 x 1,5 per meter (please state desired length on your order)	27 008 009	⑥

Lubrication system perma PRO / PRO C MP-2

Installation dimensions



Assembly



Determine Discharge Period

- 1** Check the lubrication specifications of your application for the correct discharge amount and times per lubrication point that the PRO / PRO C MP-2 distributor outlet should discharge. If necessary, calculate this amount in cc per 100 operating hours.
- 2** Double this figure to get the total lubricant amount in cc for 100 operating hours (two lubrication points receive the same amount of lubricant).
- 3** Go to the chart in the PRO / PRO C operating manual (chapt. 6.7). Find your previously determined total lubricant amount in the chart. The chart will tell you the correct lubricator setting depending on the size of the PRO LC unit.

Calculation example:

Lubrication data listed on the specification plate of an electric motor:

150 cc / 4000 h lubricant per bearing (2 bearings!) 1

This amounts to **3.75 cc per 100 operating hours.**

Each outlet of the distributor PRO / PRO C MP-2 must discharge 3.75 cc per 100 hours.

Total discharge amount that the lubrication system must discharge:

7.5 cc per 100 operating hours (3.75 cc times 2 outlets / 100 h) 2

The chart on chapt. 6.7 of the PRO / PRO C operating manual shows the following setting:

20 weeks discharge with lubricant cartridge **PRO LC 250** or **3**

9 months discharge with cartridge **PRO LC 500**

Conformity Declaration

EC declaration of conformity

- according to the Machinery Directive 98/37/EC^[1] and to EMV (Electromagnetic Compatibility) - Directive 2004/108/EC
- according to the Machinery Directive 2006/42/EC^[2] and to EMV (Electromagnetic Compatibility) - Directive 2004/108/EC

The manufacturer

perma-tec GmbH & Co. KG
Hammelburger Straße 21
D – 97717 Euerdorf

hereby declares that the product as described in the given statement conforms to the regulations appertaining to the directives referred to above, including any amendments thereto which are in force at the time of the declaration.

Product description: Automatic lubrication system
Product name: Lubrication system perma PRO MP-2 or perma PRO C MP-2
Type: perma PRO 250 MP-2 or perma PRO C 250 MP-2
perma PRO 500 MP-2 or perma PRO C 500 MP-2

The following harmonized standards were applied:

- EN ISO 12100-1:2003 Safety of machinery – basic concepts, general terms of reference as regards design and construction – Section 1: Basic Terminology, Methodology
- EN ISO 12100-2:2003 Safety of machinery – basic concepts, general terms of reference as regards design and construction – Section 2: Technical terms of reference
- EN 60204-1:2006 Machinery's electrical equipment

Euerdorf, 15 December 2008

perma-tec GmbH & Co. KG

Walter Graf, Managing Director

Egon Eisenbacher, Technical Management and authorized documentation representative (see manufacturer address)

This declaration certifies conformity to the directives referred to but it is not a warranty of qualities. The safety instructions of the operating manual are to be observed.

1. Directive 98/37/EC is valid until and including the 28th of December 2009
2. Directive 2006/42/EC is valid as of 29 December 2009