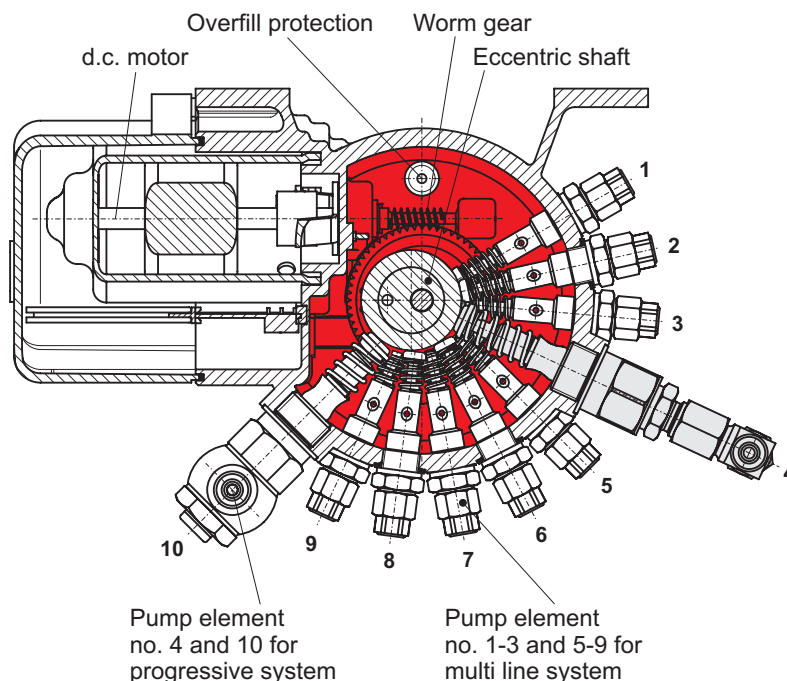
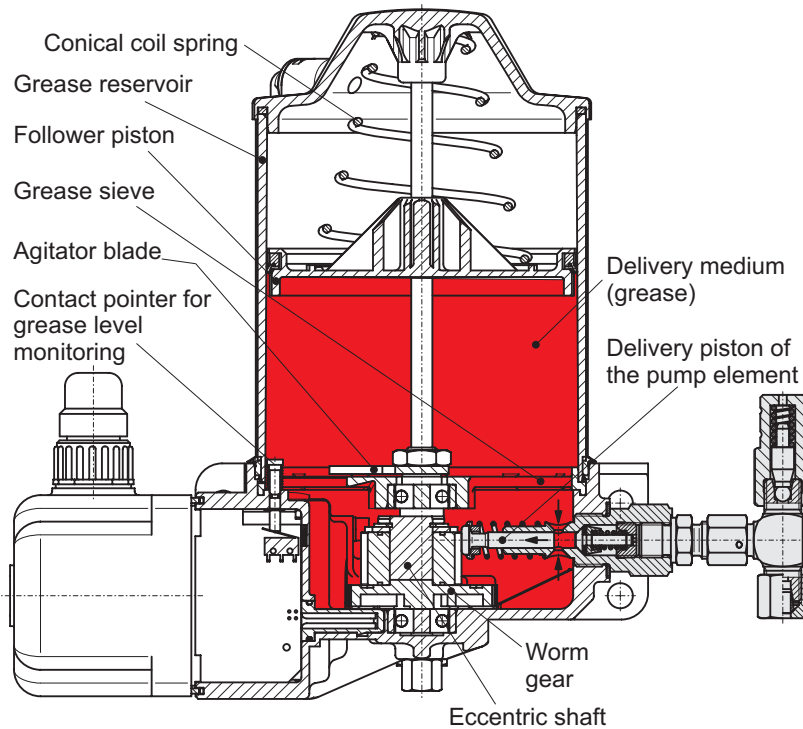


Table of contents

▶ Grease lubrication pump PICO - Use, function	06-2-20-02
▶ Grease lubrication pump PICO - Type 2185	06-2-20-03
▶ Grease lubrication pump PICO - Dimensional drawing	06-2-20-04

Subject to alterations!



Use

Can be used as progressive or multi line pump in compressors, machine tools, textile machines, wood working machines and printing machines, etc.

Function

A d.c. motor (12 or 24 V) drives the eccentric shaft via a worm gear. The pistons of the pump elements are pushed into the outlet fitting by the rotative movement and the eccentricity (=delivery stroke). The piston spring causes a return of the delivery piston into original position (= priming).

The non-return valves, integrated into the pump elements, prevent that the already displaced delivery medium can be sucked back.

At the eccentric shaft above the grease sieve is an agitator blade, which is firmly connected to the eccentric shaft. This agitator blade pushes the delivery medium in the direction of the pump elements.

In the grease reservoir is a follower piston which is pressurized with a conical coil spring. The follower piston's task is to push the delivery medium well-proportioned to the pump elements. With the use of a follower piston, the pump has not necessarily be assembled in horizontal position.

When the pump is empty, the follower piston touches a contact pointer, which then gives a signal to the control unit (pump empty).

Filling is effected via the hydraulic type lubricating nipple at the pump housing. An overfill protection is integrated into the pump housing so that the pump cannot be overfilled.

Technical data

Pump

Delivery volume per stroke (= 1 pump revolution) and outlet: 0,005 to 0,12 cm³
(depending on pump element)

Regulation: possible for PE 120 FV

Reservoir size: 1,2 kg, plastic, transparent

Operating pressure: max. 200 bar at multi line system
max. 280 bar at progressive system

Lubricating medium: greases up to NLGI cl. 2
without solid contents

Operating temperature: -25 to 70 °C

No. of outlets: max. 10

Outlet type: see order key

Rotation direction of agitator blade: clockwise

Installation position: reservoir vertical as shown

Weight: max. 4,5 kg
(without pump elements, with basic grease filling)

Level monitoring: integrated into the pump

Motor

Drive: d.c. motor

Operating voltage: 12 V DC or 24 V DC

Current consumption at 280 bar counter-pressure and -25° C: max. 3,8 A for 24 V DC
max. 7,5 A for 12 V DC

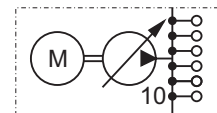
Speed (= pump revolutions): 15 r/min

Protection class: IP 6K5

Note: The installation of an integrated control unit PICO-tronic (standard) is possible for this pump*** (see documentation control- and monitoring devices).



Hydraulic diagram



Pump elements (see documentation pump elements)	Metering volume cm ³ / stroke and outlet	System
PE 5	0,005	Multi line
PE 10	0,010	
PE 15	0,015	
PE 25	0,025	
PE 50	0,050	
PE 120 F	with/without pressure limitation valve	Progressive
PE 120 FV	0,12 max. 0,12 (adjustable)	

Order key for the series 2185

2185 3 1 1 10 0000***

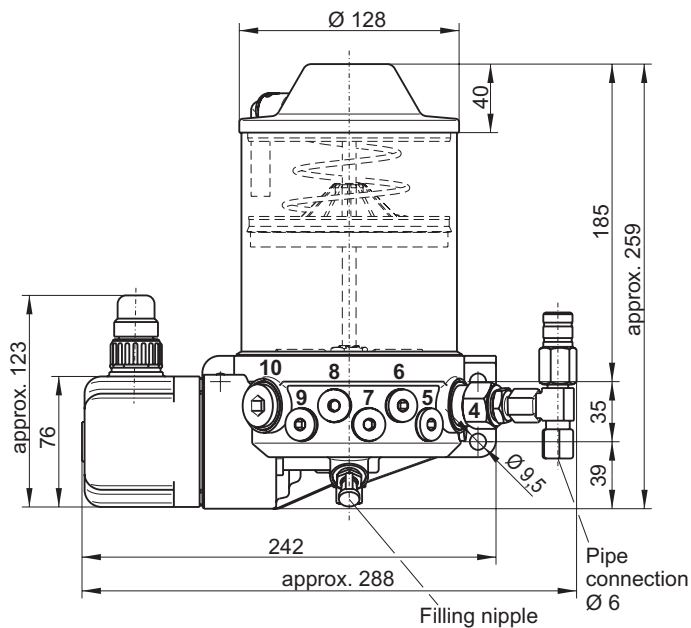
Type-no.	2185		
Code-no.	2185		
Motor voltage	with bayonet connector	12 V DC	24 V DC
Code-no.	3	4	
Pump elements **			
Outlet position	4	10	4+10 without PE
PE 120 F with DBV*	1	2	3 0
PE 120 FV with DBV*	4	5	6
PE 120 F with DBV* (pos. 4) + PE 120 FV with DBV* (pos. 10)			7
PE 120 F with DBV* (pos. 10) + PE 120 FV with DBV* (pos. 4)			8
Reservoir size	1,2 kg		
Code-no.	1		
Control unit	without		
Code-no.	10		
Special models			

* with DBV = with Druckbegrenzungsventil = with pressure limitation valve

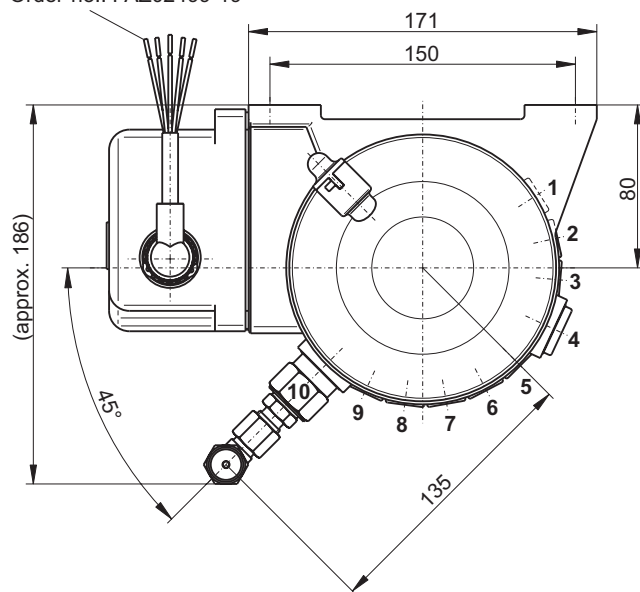
** Please indicate pump elements PE 5, PE 10, PE 15, PE 25, PE 50 separately; see documentation pump elements.

*** Please indicate type of control separately for model with integrated control unit.

Subject to alterations!



Spare cable with plug, 10 m
Order-no.: FAZ02499-19



Pump elements

The PICO can be equipped with 10 outlets as a maximum, whereas two outlets are intended for the connection to a progressive system and eight outlets for the direct connection to the lubrication point.

For connecting a progressive system can the pump elements PE 120 F and PE 120 FV optionally be installed into the outlet positions 4 and 10.

The pump elements PE 5 or PE 10, PE 15, PE 25, PE 50 can be installed into the outlet positions 1 to 3 and 5 to 9.

When a pump element is disassembled, the outlet position has to be locked with a corresponding screw plug and a sealing ring.

Order-no. for outlet position 4 and 10:

Screw plug M20 x 1,5: 090090800850
Sealing ring Ø28 x Ø21: 100150010149

Order-no. for outlet position 1 to 3 and 5 to 9:

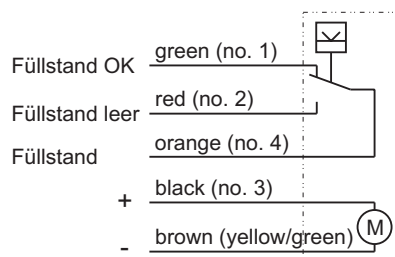
Screw plug M14 x 1: 090090801450
Sealing ring Ø14 x Ø18: 100150010148

Level monitoring

As a standard, the pump is equipped with an electrical filling level indicator. The pump has to be switched off in the case of minimum grease level in order to prevent that air is sucked into the system.

Wiring diagram

Connection possibilities to existing machine control, for example:



(no. ...) = cable-no. for uni-colored cable

Subject to alterations!