

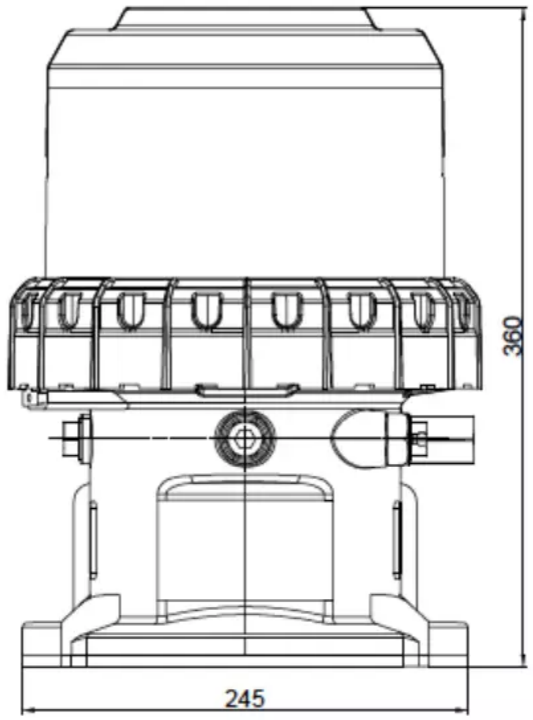
NEXTRA SERIES

MEMOLUB NEXTRA SERIES TECHNICAL DATA SHEET

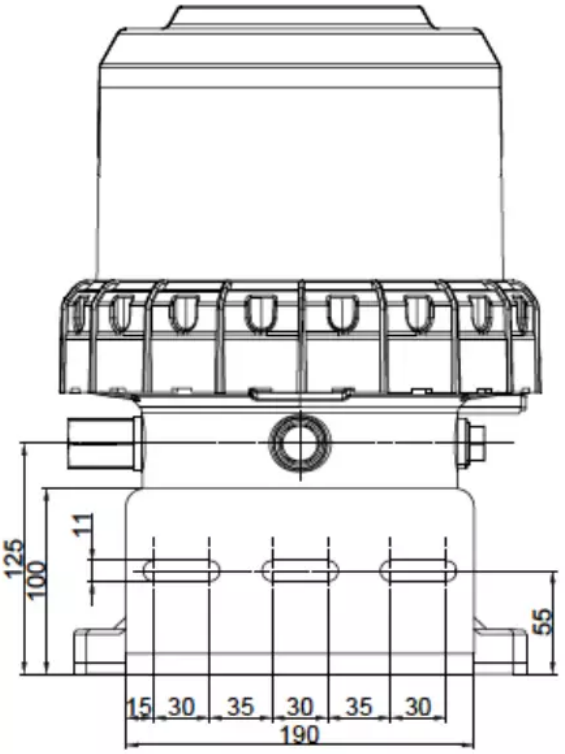
MEMOLUB.COM

DIMENSIONS

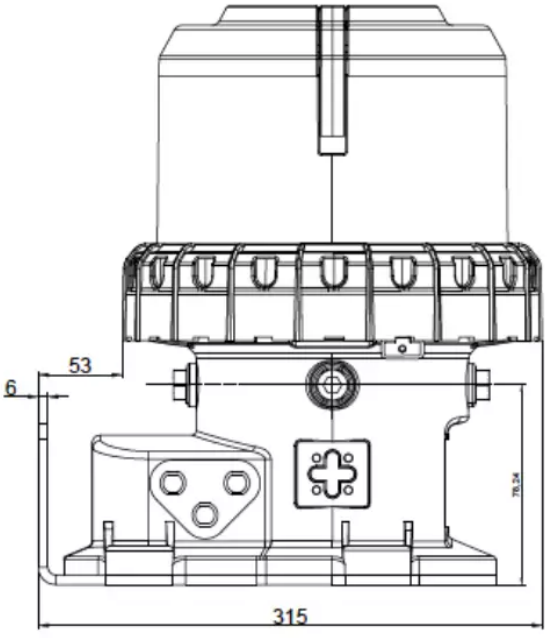
Front
4kg



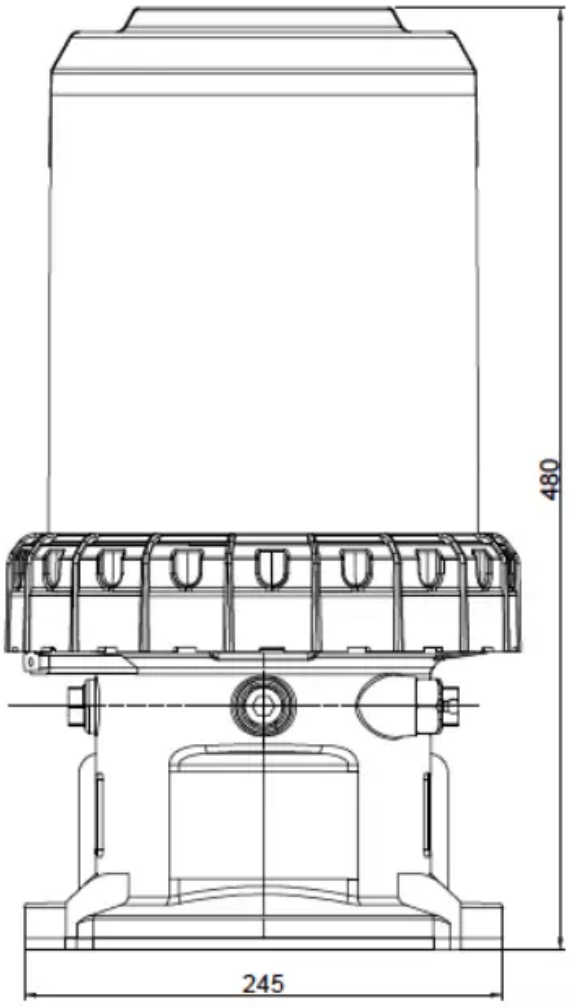
Back
4kg



Side
4kg

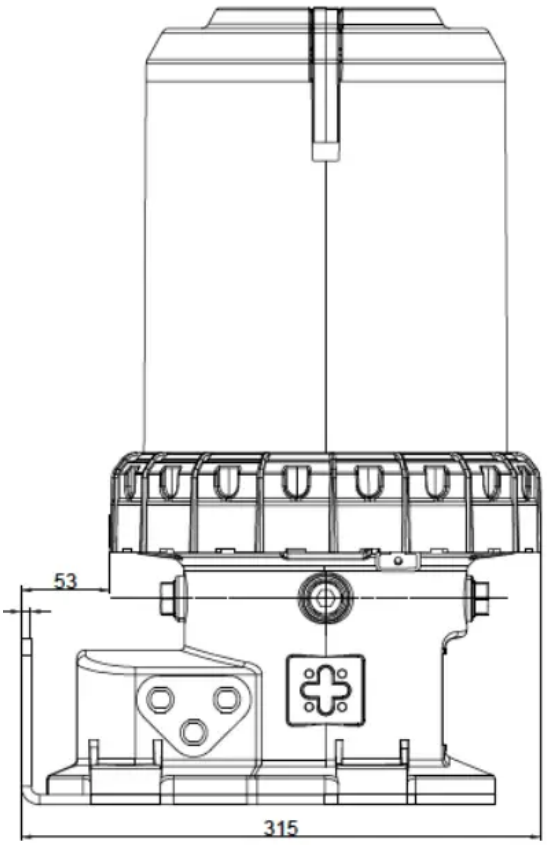


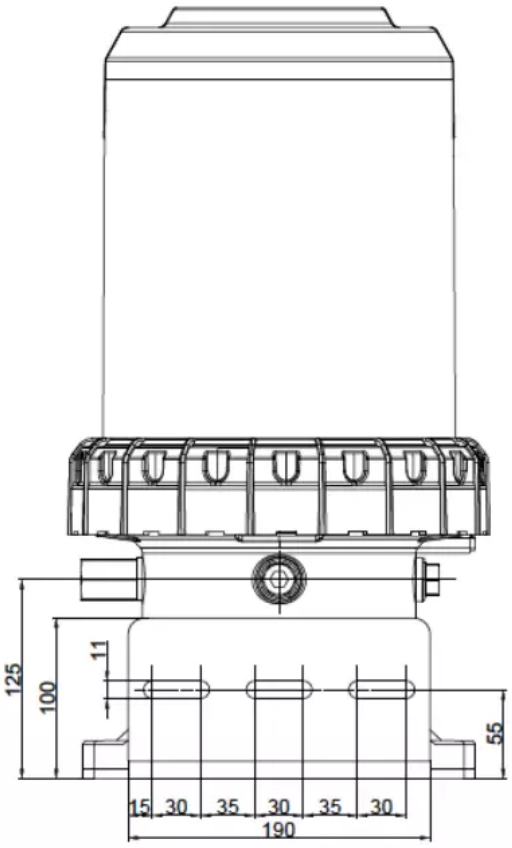
8kg
Front



Side
8kg

Back
8kg


53
315


125
100
11
55
15
30
35
30
35
30
190

TECHNICAL SPECIFICATIONS
NEXTRA SERIES PUMP

HIGH-PRESSURE & WIDE TEMPERATURE RANGE

SPECIFICATION	DESCRIPTION
Pump type	Progressive electro-mechanical lubrication pump
Operating principle	Volume-based progressive pumping
Maximum pressure	Up to 350 bar
Discharge per stroke	0.20 cc / 0.16 cc (Pumping Elements: NPE 07 / NPE 06)
Number of outlets	Up to 3
Body Material	PA6 reinforced with 50% glass fibre
Container Material	Bio-based

RESERVOIR & REFILLING

SPECIFICATION	DESCRIPTION
Reservoir capacity	4 L / 8 L
Refilling method	Manual refilling
Vent design	Dual vent, with separate air & grease vents
Refilling support	Selectable air-free refilling mode
Refilling benefit	Prevents air pockets and internal pressure build-up

SPECIFICATION	DESCRIPTION
Lubricant type	Grease
NLGI grade	Up to NLGI Grade 2
Lubricant additives	Compatible with standard industrial additives

ELECTRICAL SPECIFICATIONS

SPECIFICATION	DESCRIPTION
Supply voltage	12 V DC, 24 V DC & 230 V AC
Drive	Electro-mechanical DC motor
Sensor	Proximity Sensor for discharge monitoring
Power Connection	DIN connector
Other Connections	Waterproof vibration-resistant circular connectors
Protection	Overcurrent protection via controller

OPERATING CONDITIONS

SPECIFICATION	DESCRIPTION
Operating temperature	-30 °C to +70 °C
Application	Industrial machinery and mobile equipment
Mounting	Vertical / Tilted mounting options
Protection	IP 65 (Applied)
Safety	Pressure Release Safety Valve (350 bar)

SYSTEM INTEGRATION

SPECIFICATION	DESCRIPTION
Divider compatibility	Progressive divider blocks
Controller compatibility	NEXTRA LINK PLUS, NEXTRA LINK PRO, NEXTRA LINK ULTRA, NEXTRA LINK ELITE
Connectivity	Via controller (Wi-Fi / GSM / eSIM)
Industry 4.0 Readiness	Available - Controller dependent

TECHNICAL SPECIFICATIONS
NEXTRA SERIES CONTROLLER

ELECTRICAL & FUNCTIONAL SPECIFICATIONS

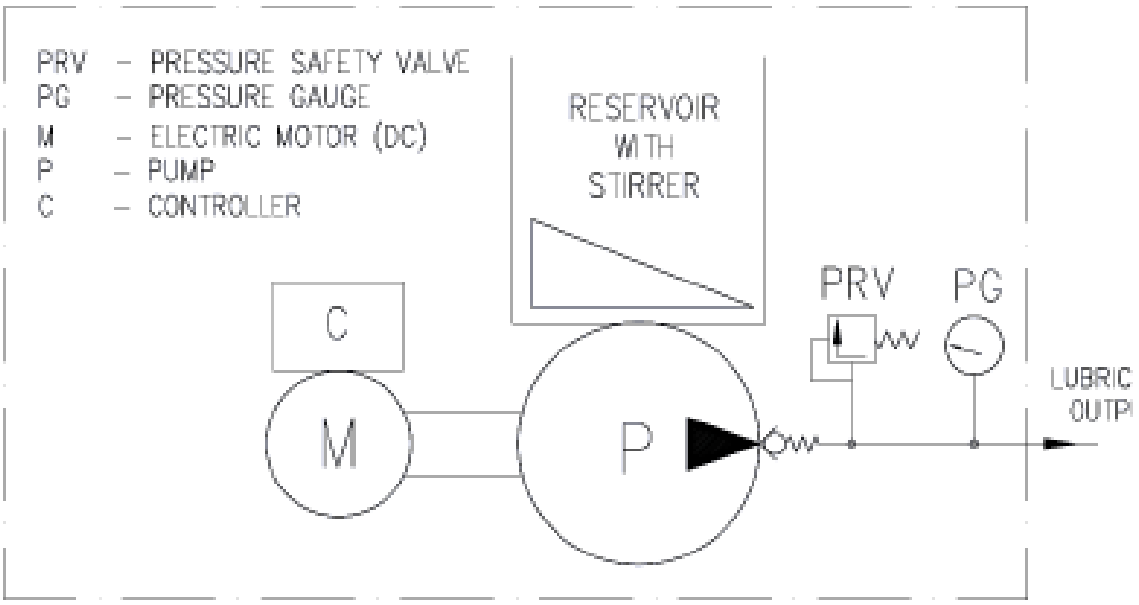
SPECIFICATION	DESCRIPTION
Controller type	Progressive electro-mechanical lubrication pump
Control philosophy	Volume-based progressive pumping
Supported pump type	Memolub Nextra Series Pumps
Supply voltage	12 V DC / 24 V DC
User interface	Keypad with 7-segment / LCD / Remote (Screen) (variant dependent)
Output monitoring	Proximity sensor-based
Notification	Visual / LED / Audible (buzzer) / Remote (Screen)
Safety	Overcurrent and system fault protection
Protection	IP 65 (Applied)

CONNECTIVITY, SOFTWARE & INTERFACE

SPECIFICATION	DESCRIPTION
Communication modes	On-board / GSM / Wi-Fi / eSIM (variant dependent)
Data handling	Operational data logging & intelligent analytics
Remote access	Web portal and mobile application
Software model	Licensed software for third-party or private servers
Server compatibility	Cloud-based or customer-owned infrastructure
External connectors	Waterproof, vibration-resistant circular connectors

SPECIFICATION	DESCRIPTION
Internal connectors	
Connector advantage	Reliable signal integrity in harsh environments
Antennas	Industrial-grade - GSM / Wi-Fi / eSIM (variant dependent) antennas
Application suitability	Industrial and mobile environments

CIRCUIT DIAGRAM



Symbol	Component
PRV	Pressure relief valve
PG	Pressure gauge
M	Electric motor (DC)
P	Pump
C	Controller

PUMP OPERATION

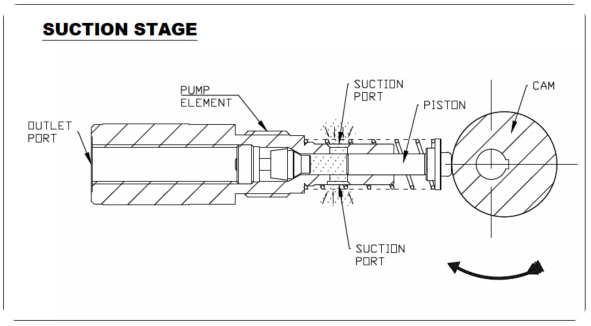
Grease is filled into the pump reservoir through the dedicated refilling port on the pump. The stirrer mechanism, which rotates while the pump is running, homogenises the grease and guides it downwards.

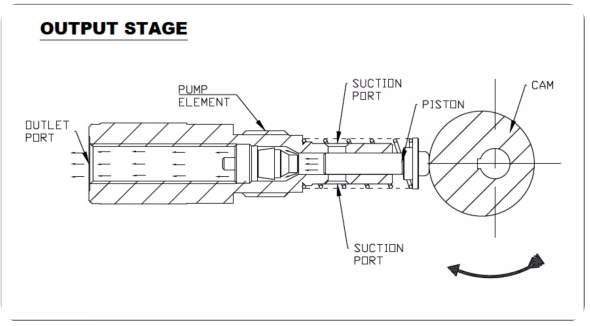
The pump elements are located at the bottom of the pump, below the reservoir and the stirrer mechanism. Each pump element is positioned perpendicular to an eccentric cam driven by the electric motor.

When the electric motor turns the eccentric cam, the piston in each pump element moves in and out and dispenses lubricant in two stages:

1. Suction stage: during the outward stroke, the piston draws in lubricant through the suction port.
2. Output stage: during the inward stroke, the piston dispenses lubricant through the outlet port.

The outlet port must be connected to the lubrication points via progressive distributors.





SAFETY INFORMATION

Intended use and operating characteristics

NEXTRA pumps are designed exclusively for dispensing lubricants in centralised lubrication systems. Do not use NEXTRA pumps for any other purpose.

NEXTRA pumps are designed for intermittent operation. Continuous operation is not recommended and may cause malfunction or damage.

Refill NEXTRA pumps at regular intervals with clean lubricant recommended by the manufacturer, and make sure no air is trapped in the reservoir.

Although NEXTRA pumps operate automatically, check every two days that lubricant is emerging at all lubrication points.

Manufacturer's liability exclusions and warranty conditions

Any use of NEXTRA pumps outside the scope described in this user manual is considered misuse. Operating NEXTRA pumps in any way not specified in this manual voids all warranty and liability claims.

The manufacturer accepts no responsibility for damage resulting from any of the following:

- Lack of lubricant due to irregular refilling of the pump
- Use of contaminated lubricants
- Use of greases that are not suitable for pumping in centralised lubrication systems
- Chemical or biological alteration of the lubricant
- Improper disposal of used or contaminated lubricants, or of components that have been in contact with lubricant
- Unauthorised modifications to lubrication system components
- Use of unapproved or unsuitable parts

Personnel and safety precautions

Only qualified and trained personnel may install centralised lubrication systems.

Always disconnect the machine's power supply before starting any installation or service work.

When filling the reservoir of pumps with a high delivery volume and high operating pressure, overfilling can cause the reservoir to burst. Never fill beyond the MAX mark.

Do not use NEXTRA pumps in potentially explosive atmospheres.

Operate NEXTRA pumps only with an inline pressure relief valve installed.

Maintenance and environmental compliance

Dispose of used or contaminated lubricants, and of any parts that have been in contact with lubricant, in accordance with environmental protection regulations. Always consult the safety data sheets of the lubricants used.

To prevent accidents, observe all local, regional and national safety regulations that apply in the country of use.

Keep NEXTRA centralised lubrication systems away from sources of extreme heat and cold, and always stay within the specified operating temperature range.

For all drilling and welding work, follow the installation instructions of the vehicle or machine manufacturer.