Barrel Pump for lubrication systems

Air operated barrel pump for dual-line systems

Centralized dual-line grease lubrication systems are commonly used in heavy process industries like paper and steel mills, metal working industries, saw mills etc. Due to the size of the systems, the large number of lubrication points and the operating conditions, the pump equipment for these applications must meet much tougher specifications than ordinary air operated pumps.

Our dual-line pump is a heavy-duty pump designed for reliability and strength. Additionally, it offers outstanding features making the lubrication systems easier to operate and supervise with a long durability and a minimum of grease spillage as further benefits.

Special follower plate

Contrary to other pumps the dual-line pump works on the top o f the follower plate and follows it down as the grease level sinks. See Fig.1. The weight of the pump and the vibrations from the air motor help the vacuum under effectively sealed follower plate to avoid this jamming in the barrel. The height of the pump above the barrel lid shows the actual and correct grease level at a glance. An adjustable level switch on the pump will signal when the barrel is empty and it is time to change.

Economical and friendly to the environment

The special design of the pump and the follower plate means that the barrel will be emptied almost completely. The follower plate being pressed against the bottom of the barrel when empty. Less than 2 kg grease is left in a 1/1 (180kg) barrel. When changing the barrel the follower plate is easily and smooth raised by means of compressed air, as shown in Fig. 2.

Fig. 1

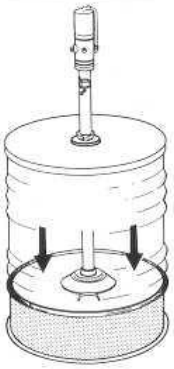


Fig. 2

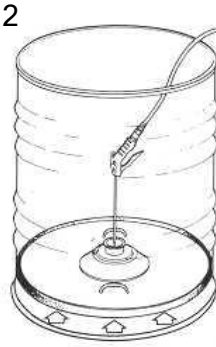
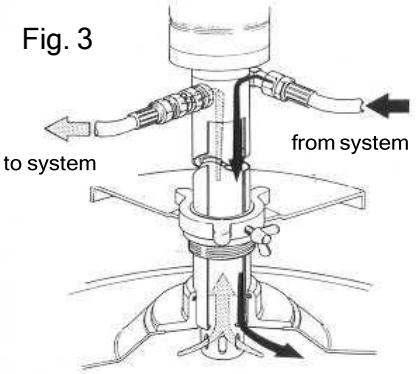


Fig. 3



Built-in grease return

The design and function on dual-line systems ensures that as grease pressure in each main line relaxes on changeover some grease will be returned to the barrel or separate grease container. This return volume is normally returned and stored on the upper face of the follower plate, from which it has to be removed at the change of a barrel.

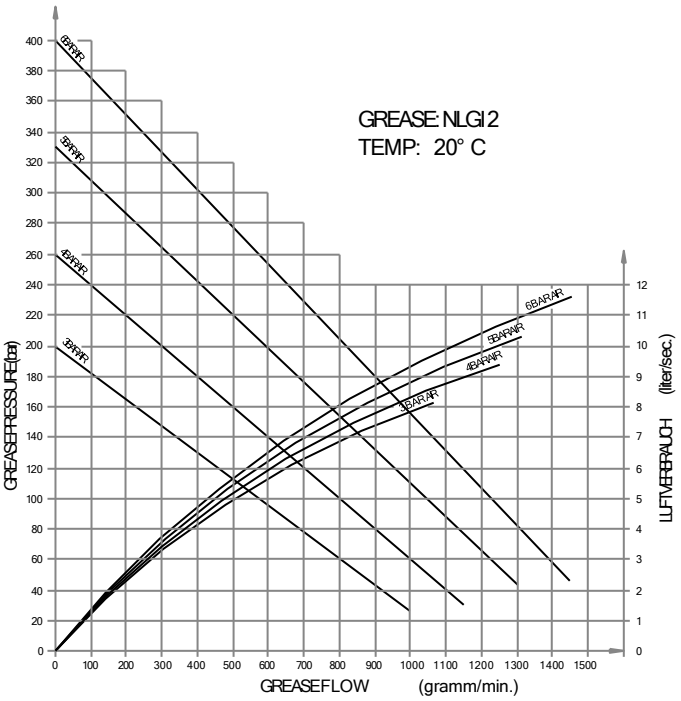
Our dual-line pump has a built-in return pipe, by which the return grease is returned to the barrel under the follower plate and thus automatically reused in the system. See Fig.3. This feature makes for simple, clean and comfortable maintenance and change of the barrel and provides improved economy as the spillage of grease will be minimal.

An optional feature is an air-operated pump elevator, which additionally simplifies and facilitates the change of barrel. The elevator is available in two types, stationary and mobile. See special leaflet.

Barrel Pump Type PFP 65

Specifications

Air-to-grease pressure ratio: 1:65
Max. discharge: 1200 cm³/min
Max. operating pressure: 520 bar
Air pressure: min.-max. 3-10 bar
Air connection: BSP ¼“
Grease connection: BSP ¼“
medium: grease up to NLGI 2



Barrel Pump Type PFP 65/200

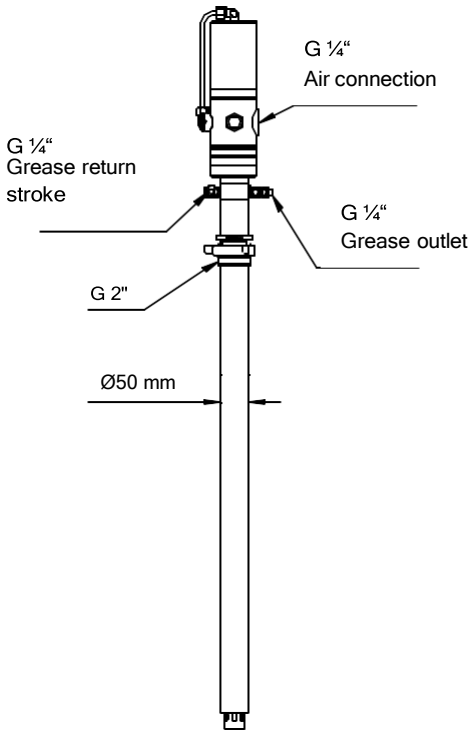
for 200 kg barrel
total height: 1305 mm
suction pipe: 890 mm
weight: 13,0 kg
ordering key 2854

Barrel Pump Type PFP 65/50

for 50 kg Barrel
total height: 1115 mm
suction pipe: 700 mm
weight: 11,5 kg
ordering key 2917

Barrel Pump Type PFP 65/20

for 20 kg Barrel
total height: 800 mm
suction pipe: 400 mm
weight: 9,0 kg
ordering key 3119



Barrel lid for 200 kg Barrel

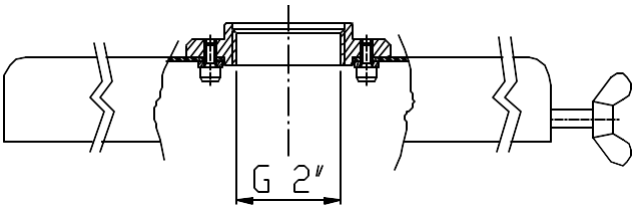
Barrel Diameter: 535 up to 605 mm
Weight: 6,0 kg
Ordering key 2946

Barrel lid for 50 kg Barrel

Barrel Diameter: 350 up to 420 mm
Weight: 2,4 kg
Ordering key 3024

Barrel lid for 20 kg Barrel

Barrel Diameter: 250 up to 320 mm
Weight: 1,7kg
Ordering key 3092



Follower plate for 200 kg Barrel

Barrel Diameter: 555 up to 580 mm
Weight: 2,8 kg
Ordering key 2947

Follower plate for 50 kg Barrel

Barrel Diameter: 340 up to 360 mm
Weight: 1,7 kg
Ordering key 4109

Follower plate for 20 kg Barrel

Barrel Diameter: 275 up to 290 mm
Weight: 0,85 kg
Ordering key 4013