BEKAFLUILUB

RAIL HEAD MAINTENANCE

Light Rail
Subway
DMU
EMU



- Minimization of curve noise
- Wear reduction of wheels and rails
- Precise apply of the maintenance fluid
- No interference on the brake length
- No pollution of the rails
- Low life cycle costs

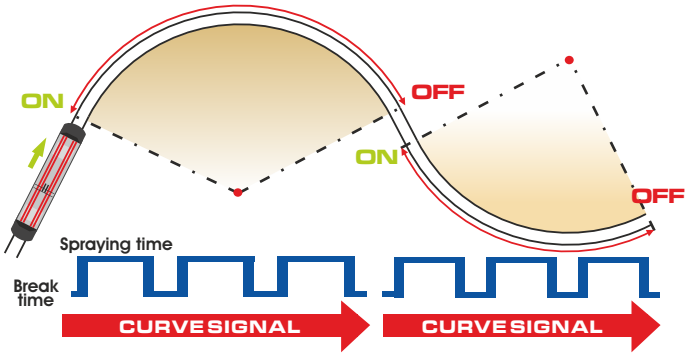
BEKAWORLD
the world of lubrication

Ts4550030816 EN 1090200578

Rail Head Maintenance

FluiLub rail head maintenance brings an end to curve squealing in narrow curves. The innovative FluiLub system reduces noise and wear of wheels and rails efficiently.

The FluiLub rail head maintenance is designed as single line system. This means: Less wear, little maintenance requirements and therefore low life-cycle costs.



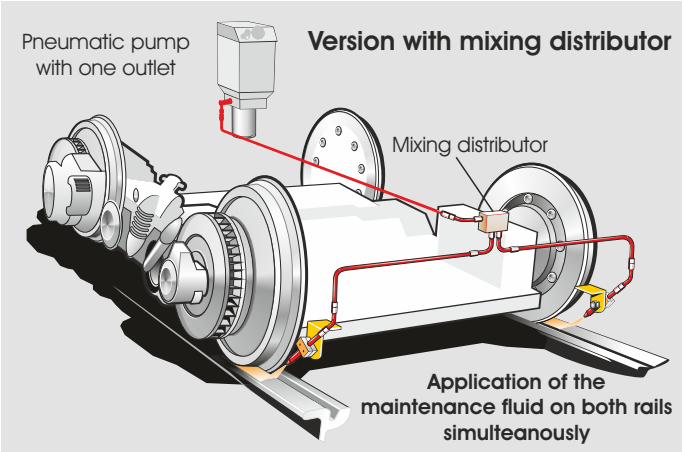
Operating principle: A 3/2-way control valve activates the pneumatic pump for a pre-selected spraying time. During this spraying time, a defined quantity of maintenance fluid is delivered by the pump and will be mixed with the spraying air.

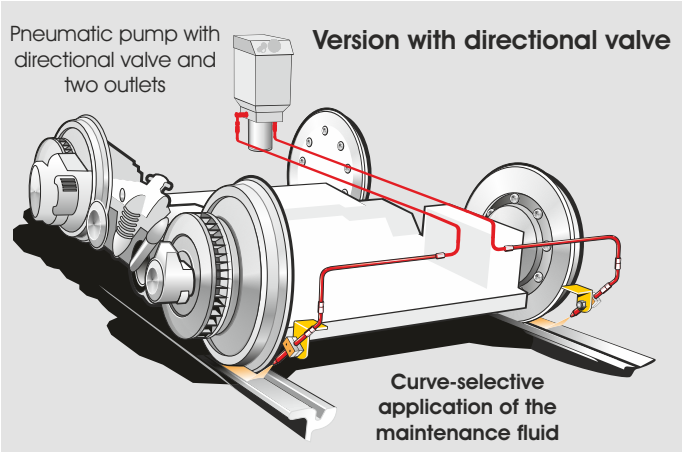
Two different systems are available:

Version with mixing distributor: The mixture of maintenance fluid and compressed air is conveyed over a mixing distributor to the spray nozzles on both sides simultaneously.

Version with directional valve: The mixture of maintenance fluid and compressed air is conveyed curve-selective over a directional valve to the respective spray nozzle.

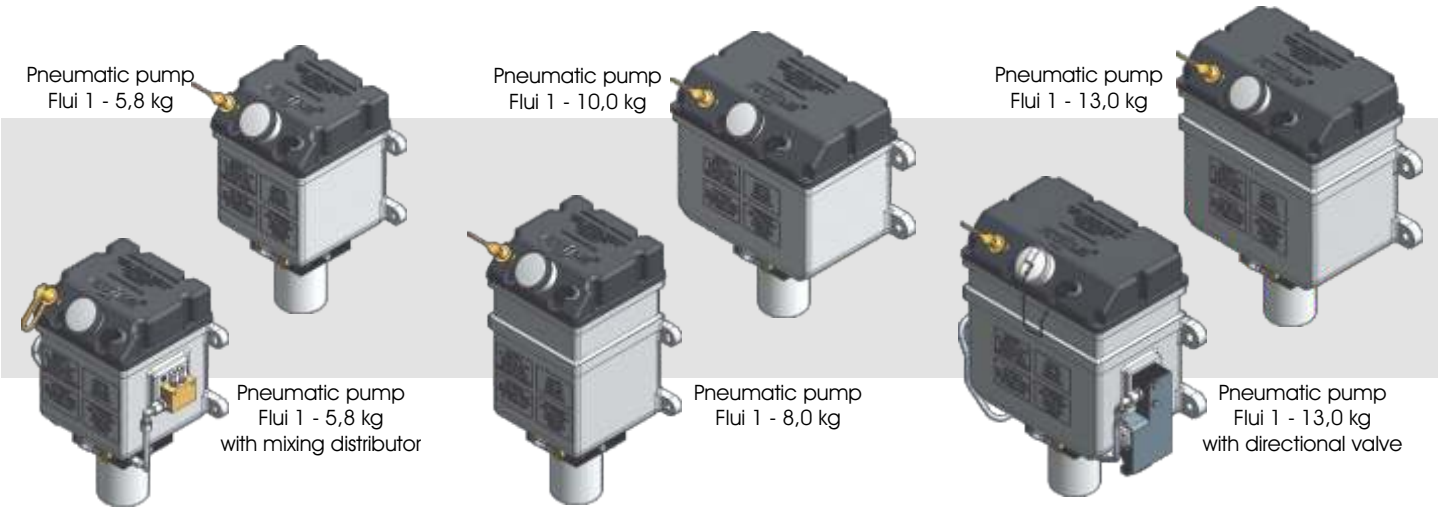
The activation of the rail head maintenance system happens curve-dependant. The pneumatic pump is activated until the curve signal falls. A conveying process consists alternately of spray time and break time.



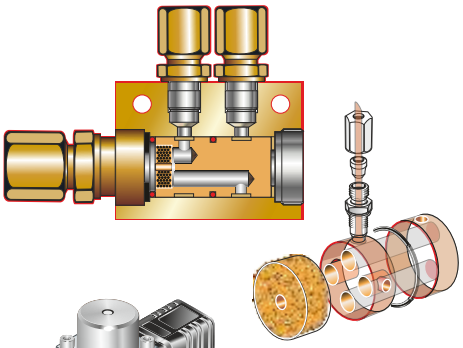


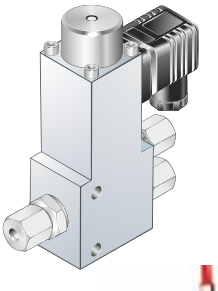
FluiLub pumps

- Extremely rugged pneumatic pump
- Admission after DIN EN 61 373 Kat. 2
- Reservoir made of aluminium, steel or special steel
- Level monitoring with dipstick, optional electronic
- Delivery rate 50 - 1000 mm^3/stroke
- Special design possible



Excerpt from the FluiLub program





FluiLub mixing distributor

The splitting insert of the FluiLub mixing distributor cares for the division of the maintenance fluid. A porous insert collects the liquid particles and distributes them like a drizzle to the airstream.

This principle guarantees a homogeneous mixing ratio even with several spray nozzles.

FluiLub directional valve

The directional valve is required for the curve-selective activation of the rail head maintenance system. It can be installed directly at the pump reservoir or externally. With this option, each rail can be supplied separately with maintenance fluid as required.



FluiLub spray nozzles

The FluiLub spray nozzles have been designed especially for rail head maintenance. They distinguish themselves by a larger spraying angle and a large number of adjustment possibilities.



FluiLub controller

With the compact control unit Fluicontrol, the FluiLub rail head maintenance can be operated best. Activation and evaluation of the system can be adapted to the required operating conditions.

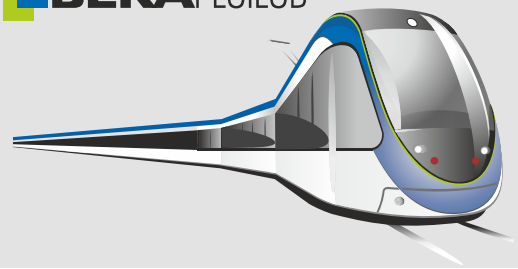
The optional curve sensor allows the curve-dependant activation of the system. Conventional devices use inclination and centrifugal force, but the FluiLub sensor detects the effective rotary motion in °/sec.



The solution for rail-road vehicles

The FluiLub system is also an ideal solution for rail flank maintenance with rail-road vehicles. Caused by its compact shape, the system can be integrated in each vehicle.

BEKAFLUILUB



The complete product program around rails:

- **Wheel flange lubrication systems for Light Rail and Heavy Rail, EMU, DMU and Highspeed**
- **Rail Head Maintenance**
- **Special Lubricants**

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