Pressure booster DHS

KNOLL
.It works

Issue 09-2016

Properties	Benefits
State-of-the-art screw pumps, valve and control technology	Low noise emissions
High- and low-pressure supply in a compact frame	Low space requirement
Demand-controlled pump control	Low electricity costs, great durability
Modular toolbox system	Low costs and short delivery times
Customer-specific design	Best possible addressing of requirements

Areas of application

The pressure booster DHS serves to supply machine tools with cooling lubricant. For this, low- and/or high-pressure pump(s) increase the supply pressure of a central plant. They supply all consumers of a machine tool with the necessary quantity of cooling lubricant. Examples are internally cooled tools and flushing.

Description

Main functions

1. Cleaning of the cooling lubricant to protect the high-pressure pump
2. Dividing of the cooling lubricant volumetric flow for the different pressure stages/consumers
3. Increasing of the input pressure
4. Cleaning of the cooling lubricant to protect the machine tool
5. Supplying of all consumers with the necessary quantity of cooling lubricant

Combination possibilities

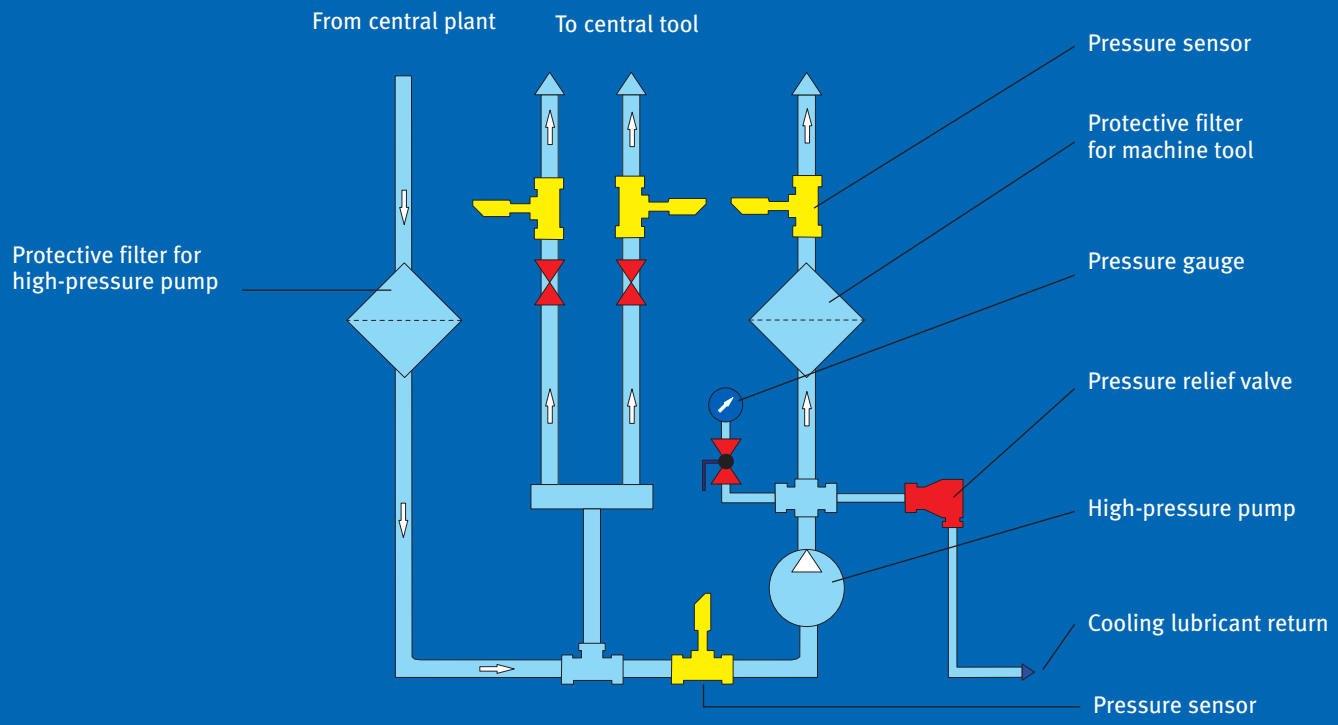
For continuous adjustment of the required pressure, we equip the pumps with frequency control on request. This prevents pressure surges. Furthermore, it has a positive influence on energy consumption, durability and noise emission.

Equipment

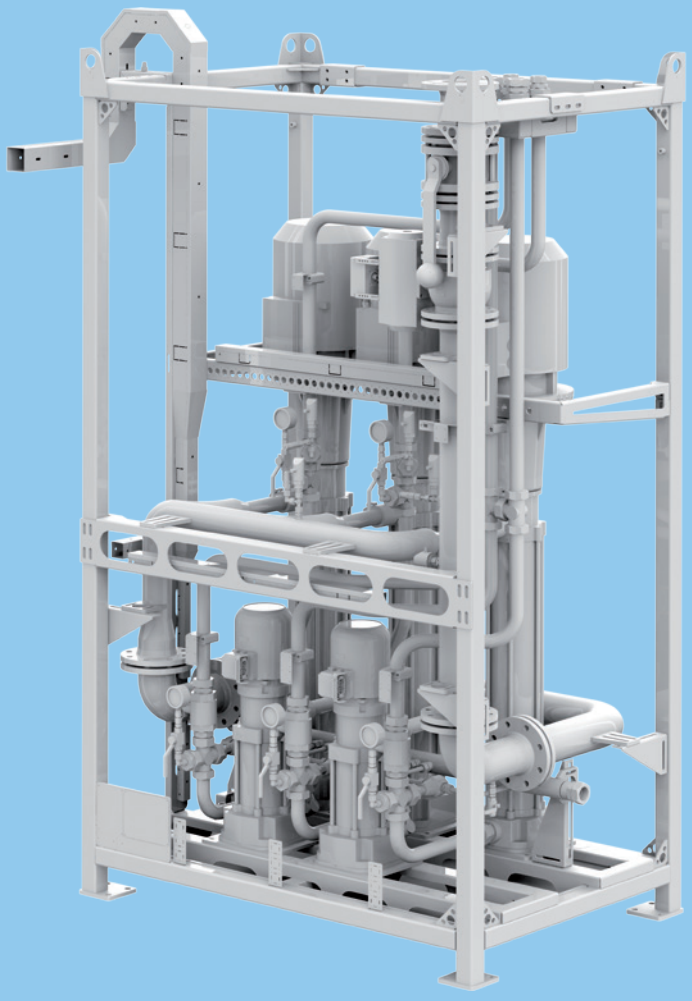
Frame	●
High-pressure pump(s)	●
Low-pressure pump(s)	○
Piping and fittings	●
Sensor(s)	●
Protective filter for high-pressure pump	○
Protective filter for machine tool	○
Control	○

● Standard equipment
○ Option

Functional scheme



Design example



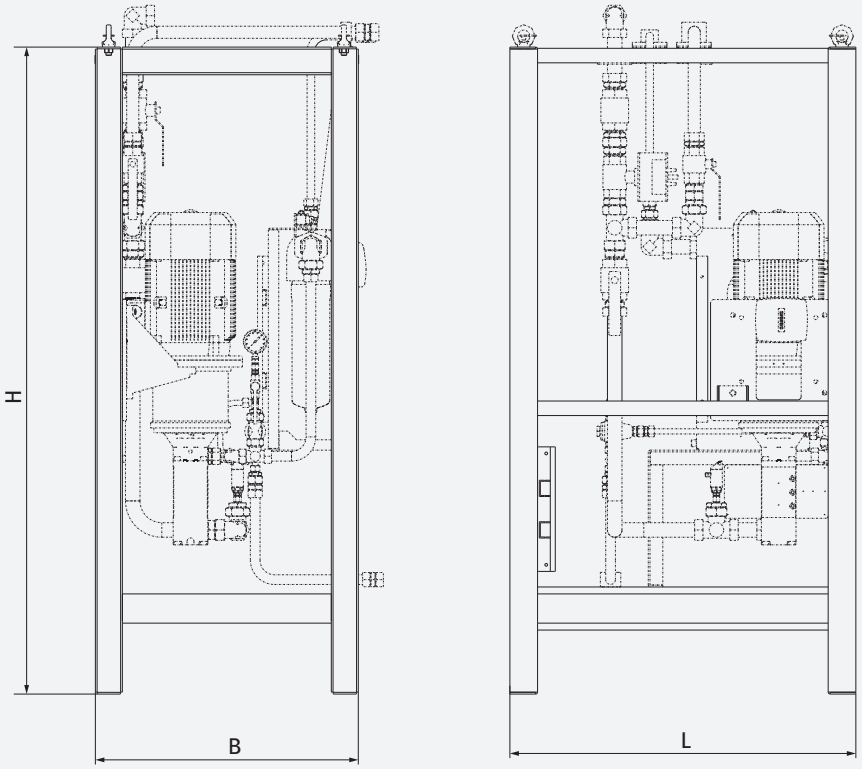
KNOLL
.It works

Pressure booster DHS

DHS

KNOLL Maschinenbau GmbH
Schwarzachstraße 20
DE-88348 Bad Saulgau
Tel. +49 7581/20 08-0
Fax +49 75 81/20 08-90140
info.itworks@knoll-mb.de
www.knoll-mb.de

Technical Data



L	B	H
1000	760	1900
1200	600	1800

Dimensions without units given in mm.
Other dimensions on request.

439141/09.2016 Right reserved to modify technical details.