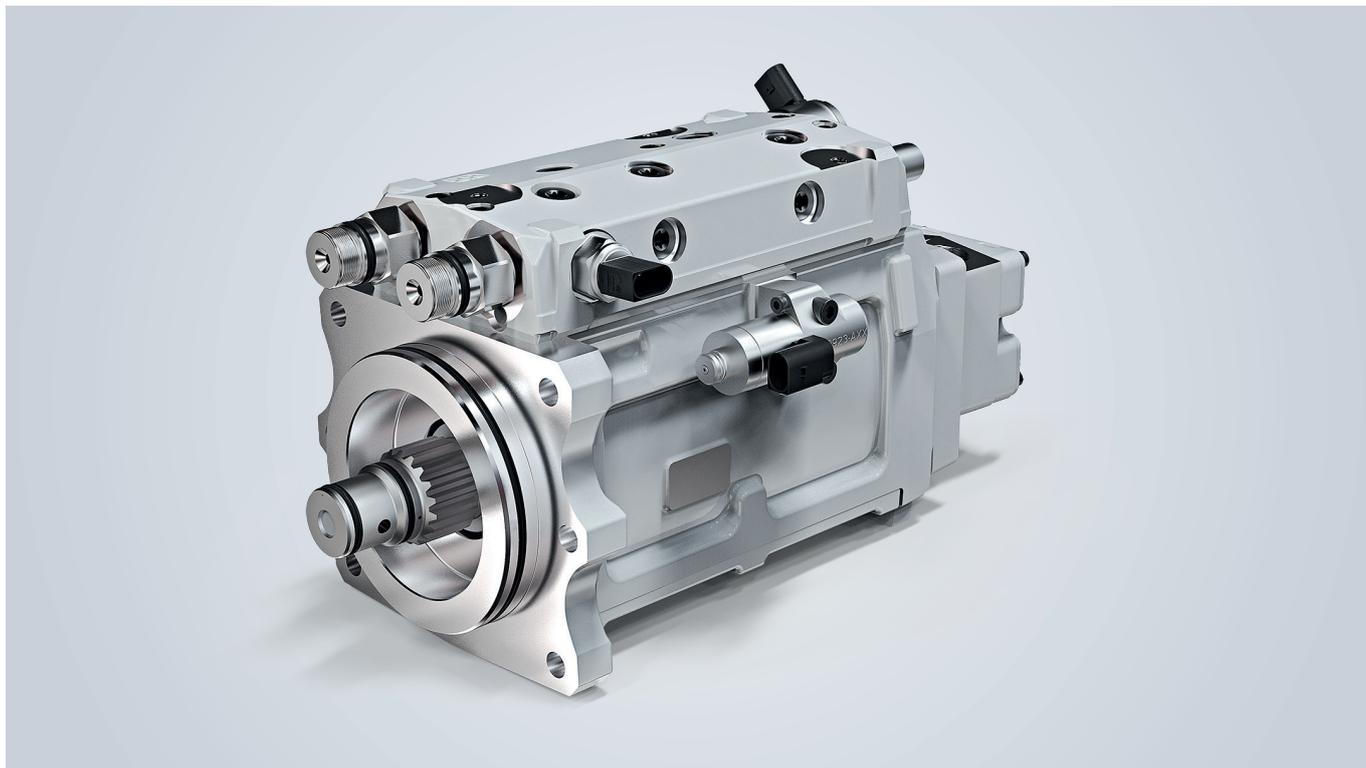


Short description

Common rail high-pressure pump LP11.5/LP11.6



The LP11.5 and LP11.6 oil-lubricated high-pressure pumps have been developed for large-scale diesel applications, which are used especially in the mining, railway, maritime and power generation segments. Maximum reliability under the harshest conditions with regard to vibrations during impact loads of up to 10 g, dust pollution and extreme working temperatures from -30 °C to +125 °C, is absolutely necessary due to the far-reaching consequences of a device standstill. Oil lubrication in combination with the eccentric drive enable extended service life of up to 15,000 hours. Compared to cam drives, both the loadings of the pump drive and the sound development of the pump are reduced in the torque consumption, which is in turn reduced by the eccentric drive. The small difference between the mean and the peak torque of up to 200 Nm favours the design of the wheels and has a positive effect on the levels of noise emission.

For optimal integration in the widest variety of applications, different types of drive flanges are available.

Moreover, the LP11.5 high-pressure pump meets all established certification requirements for marine applications.

Features

- Oil-lubricated
- Robust eccentric drive
- Extremely robust against aggressive fuels (compatible with EN590, Jet A1 fuels, B10 S10 / B30, SS 155435, ASTM, BS 2863, GB 19147, NATO F, MGO)
- Mechanical G-rotor booster pump
- High flexibility and efficiency thanks to specially adapted electronically steered volume control valves
- High adaptability, with up to four connector possibilities for high / low pressure lines
- Individual engine interfaces
- Direction of rotation: clockwise / counter clockwise
- Robust and reliable in the harshest environments according to VDI 3838 and ISO 10816-6
- TA Luft, US EPA Tier 4f, IMO III compatible!

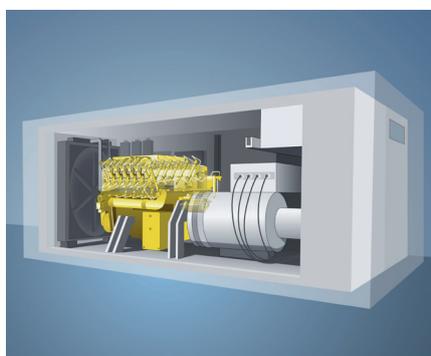
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Common rail high-pressure pump LP11.5/LP11.6

| Technical information | LP11.5 | LP11.6 |
|---------------------------|--|--|
| System pressure | 100 - 2,200 bar | 100 - 2,200 bar |
| Max. flow rate | 810 l/h | 970 l/h |
| Rated pump speed | 4,500 rpm @ 2,200 bar | 4,500 rpm @ 2,200 bar |
| Max. speed | 5,000 rpm @ 1,800 bar | 5,000 rpm @ 1,800 bar |
| Drive concept | Eccentric shaft | Eccentric shaft |
| No. of plungers | 5 | 6 |
| Lubrication | Engine oil | Engine oil |
| Weight | ~ 55 kg | ~ 60 kg |
| Service life off-highway | 15,000 hours | 15,000 hours |
| Oil in fuel | < 0.02 g/kWh | < 0.02 g/kWh |
| PCV | Electrically controlled with mechanical overpressure safety | Electrically controlled with mechanical overpressure safety |
| VCV | Volume control valve currentless open | Volume control valve currentless open |
| Feed pump | Mechanical (G-rotor) | Mechanical (G-rotor) |
| Mean torque | 135 Nm @ 2,200 bar and max. flow rate | 160 Nm @ 2,200 bar and max. flow rate |
| Peak torque | 200 Nm | 200 Nm |
| Environmental temperature | -30 °C to +125 °C | -30 °C to +125 °C |
| Vibration specification | VDI 3838 / ISO 10816-6 | VDI 3838 / ISO 10816-6 |
| Fuel specification | Purity class 12/9/6 (ISO 4406) | Purity class 12/9/6 (ISO 4406) |
| Filtration specification | Min. 99.2 % efficiency @ 4 µm (ISO 19438) - along service life | Min. 99.2 % efficiency @ 4 µm (ISO 19438) - along service life |

Applications:

Mining, Power Generation, Marine



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