

1015. The engine for construction.

187-440 kW at 1500-2100 rpm



Engines for exhaust emission step 2

These are the characteristics of the 1015:

Water-cooled 6- and 8-cylinder V-engines.

Turbocharging with charge air cooling.

Four-valve technology.

Injection system with mechanical governor, mechanically actuated/
electronically controlled high-pressure injection on request.

Separate gear-driven PTOs, beltless fan drive.

Very compact design.

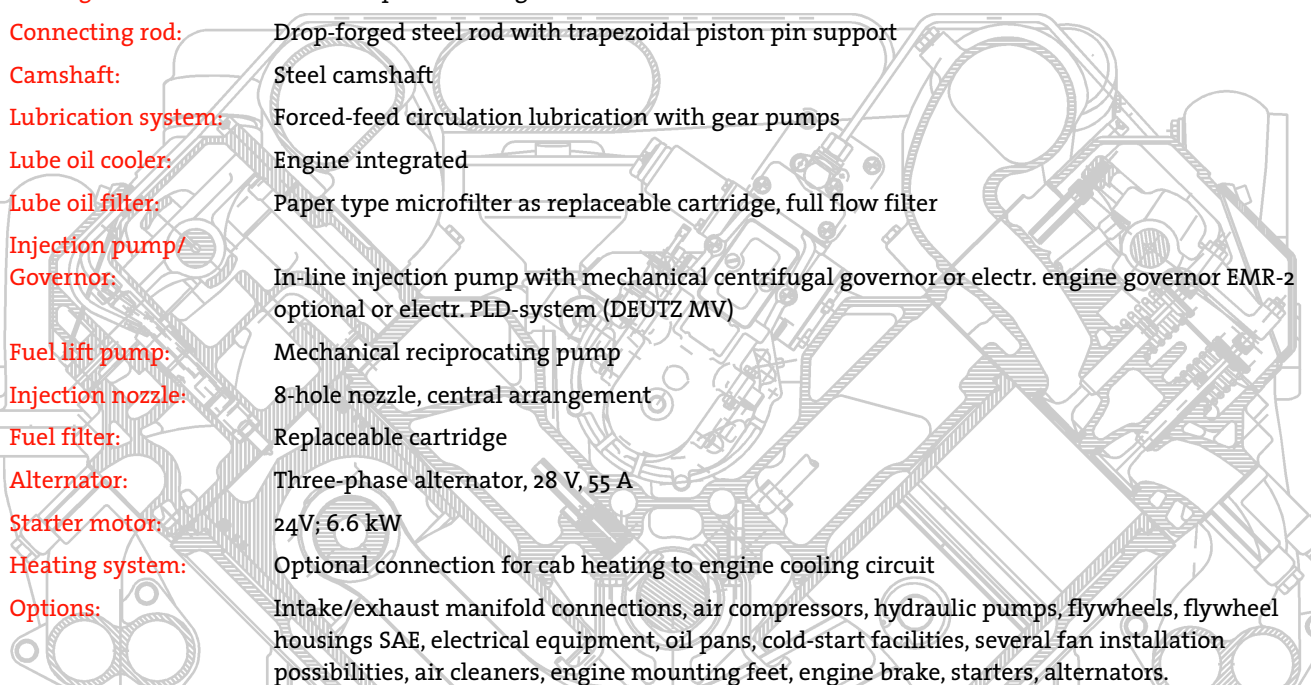
Powerful and rugged engine with a high power-to-volume ratio.



Your benefit:

- ▶ Extremely low noise emission, reduces insulation measures significantly.
- ▶ High torque ensures excellent flexible and powerful response to changing operating duties.
- ▶ Savings in investment costs thanks to long life cycles. Low fuel consumption and long oil change intervals (500 running hours) increase savings in operating costs.
- ▶ Easily accessible and clearly arranged service points make inspection and maintenance work quick and easy.
- ▶ Environment-friendly and long-term use. Meets exhaust emission regulations EU-RL 97/68 EG, Step II and US EPA Tier II Nonroad.

► Engine description



| | |
|-------------------------------|--|
| Type of cooling: | Liquid cooling |
| Crankcase: | Crankcase of grey cast iron with wet liner |
| Crankcase breather: | Closed-circuit system, vacuum-controlled |
| Cylinder head: | Individual cylinder heads of grey cast iron of crossflow design |
| Valve arrangement/ Timing: | Overhead valves in cylinder head, four valve technology, actuated via tappets, pushrods and rocker arms, driven by gears and central camshaft |
| Turbocharging: | V6 with one turbocharger and with charge air cooler V8 with two turbochargers and charge-air cooler |
| Piston: | Three-ring pistons: two compression rings and one oil scraper ring |
| Piston cooling: | Oil-cooled with spray nozzles (CP-engines: channel-cooled piston) |
| Crankshaft: | Drop-forged steel crankshaft with bolted counterweights. V6 with 30° offset crankpins (split-pin) |
| Main and big-end bearings: | Tri-metal plain bearings |
| Connecting rod: | Drop-forged steel rod with trapezoidal piston pin support |
| Camshaft: | Steel camshaft |
| Lubrication system: | Forced-feed circulation lubrication with gear pumps |
| Lube oil cooler: | Engine integrated |
| Lube oil filter: | Paper type microfilter as replaceable cartridge, full flow filter |
| Injection pump/ Governor: | In-line injection pump with mechanical centrifugal governor or electr. engine governor EMR-2 optional or electr. PLD-system (DEUTZ MV) |
| Fuel lift pump: | Mechanical reciprocating pump |
| Injection nozzle: | 8-hole nozzle, central arrangement |
| Fuel filter: | Replaceable cartridge |
| Alternator: | Three-phase alternator, 28 V, 55 A |
| Starter motor: | 24V; 6.6 kW |
| Heating system: | Optional connection for cab heating to engine cooling circuit |
| Options: | Intake/exhaust manifold connections, air compressors, hydraulic pumps, flywheels, flywheel housings SAE, electrical equipment, oil pans, cold-start facilities, several fan installation possibilities, air cleaners, engine mounting feet, engine brake, starters, alternators. |

► Technical Data

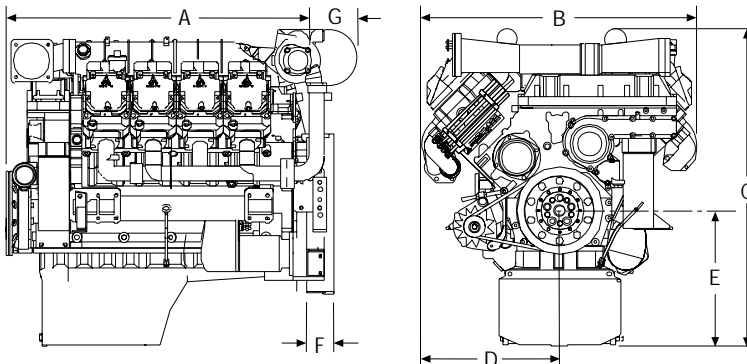
| Engine Type | | BF6M1015C | BF6M1015CP | BF8M1015C | BF8M1015CP |
|---------------------|-----|-----------|------------|-----------|------------|
| Number of cylinders | | 6 | 6 | 8 | 8 |
| Bore/stroke | mm | 132/145 | 132/145 | 132/145 | 132/145 |
| Displacement | l | 11.91 | 11.91 | 15.87 | 15.87 |
| Compression ratio | | 16.5 | 16.5 | 16.5 | 16.5 |
| Max. rated speed | rpm | 2100 | 2100 | 2100 | 2100 |
| Mean piston speed | m/s | 10.15 | 10.15 | 10.15 | 10.15 |

Power ratings for construction equipment engines¹⁾

Power ratings for industrial engines

| | | | | | |
|--|-----|------|------|------|------|
| Group I | kW | 300 | 330 | 400 | 440 |
| at speed | rpm | 1900 | 2100 | 1900 | 2100 |
| Mean effective pressure | bar | 14.4 | 15.8 | 14.4 | 15.8 |
| Group III ²⁾ | kW | 273 | 300 | 364 | 400 |
| at speed | rpm | 1900 | 2100 | 1900 | 2100 |
| Mean effective pressure | bar | 13.1 | 14.4 | 13.1 | 14.4 |
| Max. torque | Nm | 1980 | 1875 | 2637 | 2500 |
| at speed | rpm | 1200 | 1300 | 1200 | 1300 |
| Minimum idle speed | rpm | 550 | 550 | 550 | 550 |
| Weight to DIN 70020, Part 7A ³⁾ | kg | 850 | 850 | 1060 | 1060 |

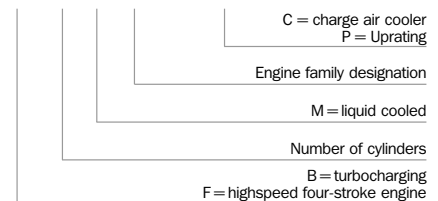
► Dimensions



| Engine type | | A | B | C | D | E | F | G |
|-------------|----|------|-----|------|-----|-----|-----|-----|
| BF6M1015C | mm | 841 | 932 | 1174 | 466 | 462 | 143 | 198 |
| BF6M1015CP | mm | 841 | 932 | 1174 | 466 | 462 | 143 | 198 |
| BF8M1015C | mm | 1010 | 955 | 1174 | 478 | 462 | 143 | 198 |
| BF8M1015CP | mm | 1010 | 955 | 1174 | 478 | 462 | 143 | 198 |

► Model designation

BF 8 M 1015 CP



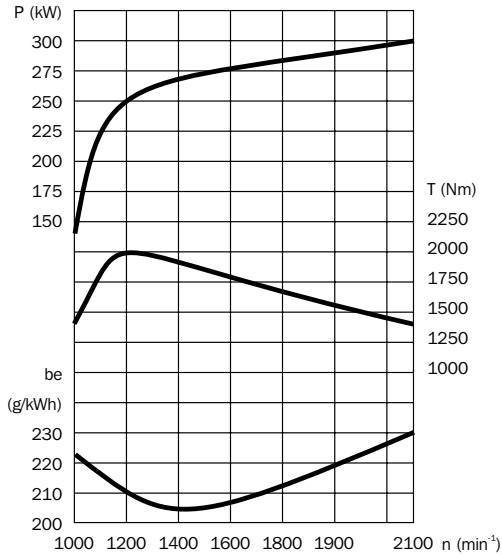
1) Power ratings without deduction of fan power requirement.

2) Fuel stop power to ISO 3046/1 (IFN), DIN 6271. The fuel stop IFN power is an ISO net power at flywheel under reference conditions with all essential auxiliaries driven by the engine.

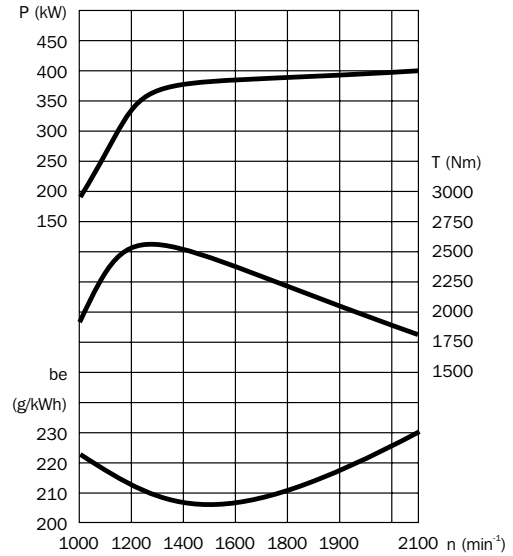
3) Weights are for a dry engine.

The values given in this data sheet are for information purposes only and not binding. The information given in the offer is decisive.

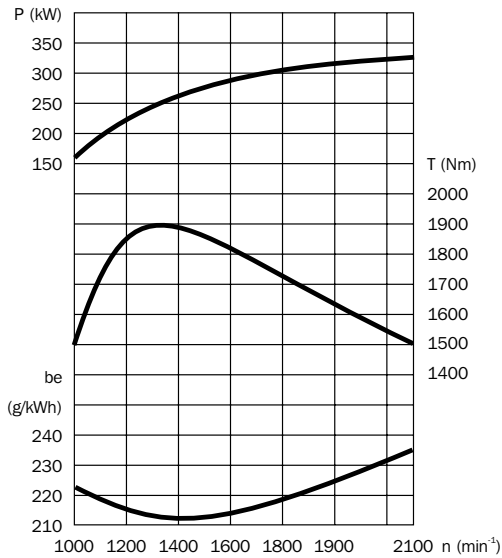
► Standard engines



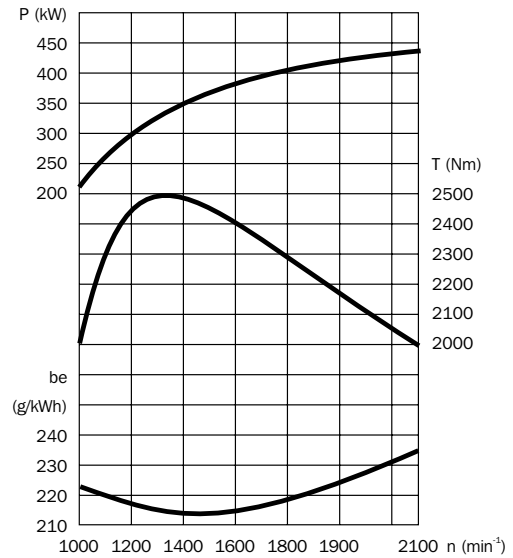
► BF6M1015C



► BF8M1015C



► BF6M1015CP



► BF8M1015CP



The engine company.

DEUTZ AG
DEUTZ MOTOR

Deutz-Mülheimer Str. 147-149
D-51063 Köln
Phone: + 49 (0) 2 21-8 22-0
Telefax: + 49 (0) 2 21-8 22-25 68
Internet: www.deutz.de
eMail: info@deutz.de



Blue Ridge Diesel
1016 Delaware Street
P.O. Box 867, Salem, VA 24153

PHONE (540) 389-7296 - FAX (540) 387-2792



Blue Ridge Diesel is one of the leading import diesel engine houses on the east coast of the U.S. Our sales department personnel are qualified to assist you in the proper sizing and selection of an engine for your application. Whether you are working with industrial, construction, agricultural, marine, or mining equipment, our knowledgeable people can help in many ways. From equipment repowering to specifying an engine for new equipment, our competent sales staff is ready to assist you and answer any questions you may have.

Contact Info:

info@blueridgediesel.com

540-389-7296



Blue Ridge Diesel
1016 Delaware Street
P.O. Box 867, Salem, VA 24153

PHONE (540) 389-7296 - FAX (540) 387-2792

