

BENEFITS

Compact and light weight
Durable and reliable
High volumetric efficiency
Smooth and quite operation

Wide range of fuel qualities
Excellent resistance against debris
and low lubricity fuels
Modular and flexible design for
scalable displacement



Efficient Performance



Flexible Design



Low Emissions

The high-pressure Modular Diesel Common Rail (MDCR) fuel pump family builds on Stanadyne's patented eccentric drive technology to deliver ruggedly reliable performance in harsh environments for demanding applications at fuel rail pressures of up to 3,000 bar. The MDCR pump is ready to support four-to-16-cylinder diesel engine programs for light-duty to severe duty, on- and off-highway, marine, military, and power generation applications.

ENABLING CLEAN PROPULSION THROUGH
ENGINE INNOVATION

TECHNICAL SPECS

2-Piston Modular Diesel Common Rail Pump

General	Requirements
Fuel Metering	Electronic
Fuel Delivery	681 to 1250 mm3/rev
Pressure	2,500-3,000 bar
Drive Ratio	Up to 2:1
B10 Life	25,000 hours
Weight	6.0 kg

4-Piston Modular Diesel Common Rail Pump

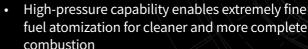
General	Requirements
Fuel Metering	Electronic
Fuel Delivery	1,362 to 4,000 mm3/rev
Pressure	2,500-3,000 bar
Drive Ratio	Up to 2:1
B10 Life	25,000 hours
Weight	9.98 kg

UNIQUE FEATURES

INNOVATIVE ECCENTRIC DRIVE

 The Stanadyne eccentric roller smooths driveline torque fluctuations reducing engine design requirements. The eccentric roller mechanism eliminates scrubbing contact at critical interfaces relative to traditional pump designs





 Smoother lift rates also result in low waste heat emission resulting in increased durability and longevity across a wide range of fuel qualities

MODULAR DESIGN

 Compact, lightweight aluminum body in two- and four-plunger configurations with interchangeable pumping elements and mounting arrangements

BEST-IN-CLASS RELIABILITY

- The roller motion constantly replenishes fuel lubrication for reduced friction, increased cavitation resistance, and low lubricity fuel tolerance
- Independently certified for 25,000 hours of B10 life

PATENT PENDING

