

FE-5000Q

QUINTUPLEX FLUID END

A five-cylinder fluid end for 5,000 class quintuplex fracturing pumps.

Valve-over-valve construction with non-removable stuffing boxes, OPI EnduraCore™ metallurgy and OP or XP consumable packages.



FE-5000Q FULLY LOADED ASSEMBLY | REPRESENTATIVE

PRODUCT CONFIGURATION

PUMP APPLICATION

5,000 BHP class quintuplex pumps

PLUNGER SIZES

4.0 in, 4.5 in and 5.0 in

SUPPLY OPTIONS

Fully loaded assembly or bare fluid-end block

Images are representative. Final geometry, manifold orientation, connection details and interface dimensions are confirmed against the OPI quotation and approved technical schedule.

5,000

PUMP BHP CLASS

250,000 lbf

ROD-LOAD CLASS

11 in

PUMP STROKE

5

CYLINDERS

Platform reference: 5,000 BHP, 250,000 lbf rod load, 11-inch stroke and 300 rpm maximum. Model-specific fitment and assembly ratings are verified at order stage.

1 FE-5000Q FLUID END ADVANTAGES

A configurable quintuplex fluid-end package combining integrated stuffing boxes, OPI EnduraCore™ metallurgy and OPI consumable support.

PUMP APPLICATION	EASE OF MAINTENANCE
For 5,000 BHP-class quintuplex pumps with 11-inch stroke. Model-specific mounting and connection compatibility require confirmation.	Five-cylinder valve-over-valve layout with integrated, non-removable stuffing boxes and serviceable consumables.
PREMIUM MATERIAL SYSTEM	OPI CONSUMABLE SUPPORT
OPI EnduraCore™ metallurgy targets combined strength, toughness, cyclic-fatigue resistance and demanding-fluid capability.	Available with OP standard-duty or XP premium-duty consumables. Detailed component interfaces are verified for the selected pump.

2 PLUNGER SIZE AND PUMP MODELS

Three plunger sizes are available. Maximum flow is shown at 300 rpm and 11-inch stroke. Maximum pressure is the separate low-speed pump-brochure reference; maximum flow and pressure are not simultaneous. Final assembly ratings depend on the selected connections and approved technical schedule.

Plunger size	Pump	Max flow rate	Max pressure	OPI consumables
4.0 in	5,000 BHP quintuplex class	898 GPM	19,894 psi	OP or XP
4.5 in	5,000 BHP quintuplex class	1,136 GPM	15,719 psi	OP or XP
5.0 in	5,000 BHP quintuplex class	1,402 GPM	12,732 psi	OP or XP

3 OPI ENDURACORE™ MATERIAL SYSTEM

OPI EnduraCore™ is a controlled high-strength fluid-end material system selected for severe cyclic fracturing duty. Material grade, chemistry, mechanical properties, heat treatment and hardness are confirmed through the approved OPI quotation and quality documentation.

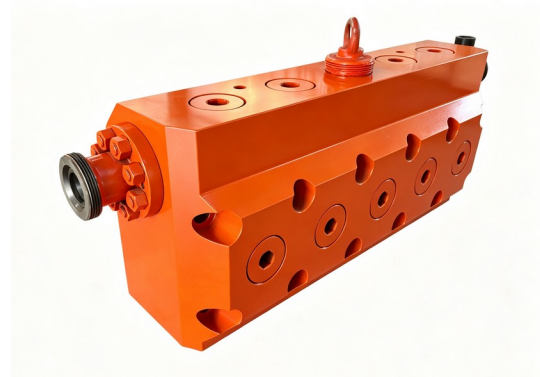
Performance benefit	OPI EnduraCore™ system
Service application	Selected for high-pressure fracturing application. Permitted fluid, temperature and duty are defined for the operating programme.
Material strength	Controlled material grade, forging quality and heat treatment selected for combined strength and toughness.
Fatigue resistance	Fatigue performance depends on material, geometry, surface condition and operating duty. Service-life claims require supporting validation.

ENGINEERED FOR LONGER-LIFE POTENTIAL	HARDNESS IS ONE CONTROL - NOT THE WHOLE STORY
OPI EnduraCore™ metallurgy is combined with geometry and process controls to pursue fatigue resistance. Autofrettage scope remains to be confirmed.	Fluid-end life also depends on toughness, fatigue strength, corrosion resistance, geometry, surface condition, heat treatment, autofrettage and operating practice. Higher hardness alone is not proof of longer life.

4 FE-5000Q DIMENSIONS AND ARRANGEMENT



FE-5000Q PLUNGER SIDE | REPRESENTATIVE



FE-5000Q OPPOSITE SIDE | REPRESENTATIVE

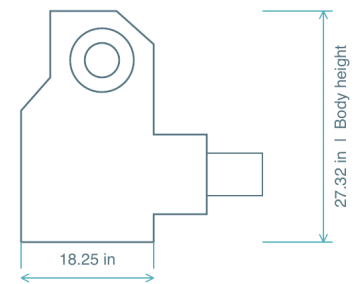
4.1 MAIN OUTLINE DIMENSIONS

FE-5000Q | SIMPLIFIED OUTLINE REFERENCE



FRONT OUTLINE

Integrated non-removable stuffing boxes



END OUTLINE | Body depth dimension

5000Q ASSEMBLY DIMENSION REFERENCE

Dimensions are in inches. Not to scale.

5 CONNECTION AND CONSUMABLE OPTIONS

Connection and consumable options follow the FE-2700Q range. Select the pressure class, orientation and manifold arrangement for the pumping duty. Final ratings, configuration and supply scope are confirmed in the OPI quotation and technical schedule.

Configuration	Available options	Notes
Discharge flange	2 in or 3 in; 1502 / 2002; male or female	Selected by pressure class
Gauge connection	2 in 1502 / 2002 WECO-type interface	Selected by pressure class
Suction manifold	Suction manifold available on request	Multiple manifold types available
Consumables	OP standard-duty or XP premium-duty package	Component interfaces to suit selected pump
Plunger sizes	4.0, 4.5 and 5.0 in	Available in OP and XP variants

ENGINEERING AND COMMERCIAL NOTES

Maximum flow and pressure are separate pump reference limits, not simultaneous operating points. The simplified outline uses reference dimensions and illustrates non-removable stuffing boxes; it is not an installation drawing. Final selection, fitment, component ratings and duty limits are governed by the OPI quotation, order acknowledgement and approved technical schedule. Images are representative.

SPEAK TO OPI SALES

Provide the pump model, operating duty and interface information above for verification and an OP / XP recommendation.

OPI SALES

sales@optimumpumpingindustries.com

DOCUMENT ISSUE

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OPI-FE5000Q-DS-001	G	FE-5000Q	September 2026