

FLUID END PRODUCTS

FE-2700Q

QUINTUPLEX FLUID END

A premium five-cylinder fluid end for FMC WQ2700 and WQ3000 pumps.

Valve-over-valve architecture with integrated stuffing boxes, premium OPI EnduraCore™ metallurgy and configurable OP or XP consumable packages.



FE-2700Q FULLY LOADED ASSEMBLY | REPRESENTATIVE

PRODUCT CONFIGURATION

PUMP COMPATIBILITY

FMC WQ2700 and WQ3000

PLUNGER SIZES

4.0 in and 4.5 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.

2,700	250,000 lbf	10 in	5
PUMP BHP CLASS	ROD-LOAD CLASS	PUMP STROKE	CYLINDERS

Platform values identify the applicable pump class and provide a reference basis for product selection.

1 FE-2700Q FLUID END ADVANTAGES

A focused direct-fit fluid-end package combining simplified construction, premium metallurgy, integrated stuffing boxes and OPI consumable support.

PUMP MODELS	EASE OF MAINTENANCE
Designed for FMC WQ2700 and WQ3000 pump classes.	Five-cylinder valve-over-valve layout supports straightforward valve, seat, packing and plunger changes.
PREMIUM MATERIAL SYSTEM	OPI CONSUMABLE SUPPORT
OPI-selected controlled high-strength alloy-steel metallurgy targets improved toughness, cyclic-fatigue resistance and demanding-fluid capability.	Available with either OP or XP plungers, packing, wing-guided valves and removable seats.

2 PLUNGER SIZE AND PUMP MODELS

Current FE-2700Q offerings cover the two principal high-pressure plunger sizes. Flow rates shown are based on 300 rpm, 10-inch stroke and 100% volumetric efficiency.

Plunger size	Pump	Max flow rate	Max pressure	OPI consumables
4.0 in	WQ2700 / WQ3000	816 GPM	20,000 psi	OP or XP
4.5 in	WQ2700 / WQ3000	1,033 GPM	15,000 psi	OP or XP

3 OPI ENDURACORE™ MATERIAL SYSTEM

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

Performance benefit	OPI EnduraCore™ system
Service application	Designed for severe cyclic high-pressure fracturing duties.
Material strength	Controlled alloy grade, forging quality and heat treatment selected for combined strength and toughness.
Fatigue resistance	Enhanced fatigue-performance potential through material selection, geometry, surface condition and process control.

ENGINEERED FOR LONGER-LIFE POTENTIAL	HARDNESS IS ONE CONTROL - NOT THE WHOLE STORY
Material, geometry, surface condition and autofrettage are combined to pursue improved fatigue resistance and reduced downtime in severe duty.	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-2700Q DIMENSIONS AND ARRANGEMENT

Two representative product views illustrate the five-cylinder arrangement and service-access layout.

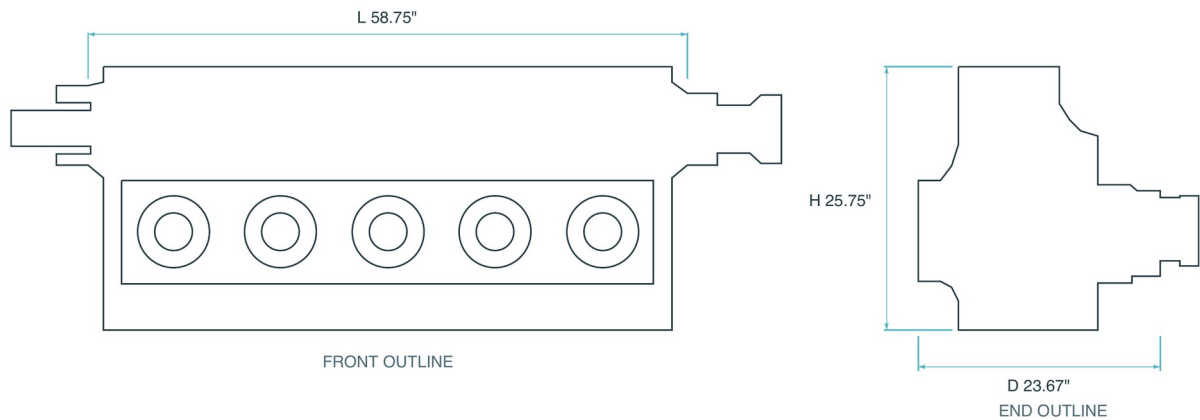


FE-2700Q FRONT / CONNECTION VIEW



FE-2700Q FIVE-CYLINDER SIDE VIEW

4.1 MAIN OUTLINE DIMENSIONS



4.0-INCH AND 4.5-INCH PLUNGER CONFIGURATIONS

Dimensions are in inches. Not to scale.

5 CONNECTION AND CONSUMABLE OPTIONS

Select the outlet configuration and OPI consumable package to suit the pumping programme. Final connection ratings, orientation and component configuration are confirmed at quotation and order stage.

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	Plunger, packing, wing-guided valves and seats
Plunger sizes	4.0 and 4.5 in	Available in OP and XP variants

ENGINEERING AND COMMERCIAL NOTES

Product designs, materials and specifications may change through continuous engineering development. Selection, compatibility, performance expectations and compliance are valid only against the OPI quotation, order acknowledgement and approved technical schedule. Images are representative and do not constitute a manufacturing definition.

SPEAK TO OPI SALES

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

OPI SALES

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DOCUMENT ISSUE

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