

FL2 Rotary Lobe Positive Displacement Pump

The Fristam FL2 positive displacement pump protects product integrity and keeps your process running efficiently.

PROTECT YOUR VALUABLE PRODUCT

The FL2 pump's special rotor geometry and large displacement cavities reduce shear and provide gentle product handling. Its bi-wing rotors and simple circular motion maintain your product's integrity by minimizing the potential of rotor-to-rotor contact.

HIGH EFFICIENCY

The FL2's bi-wing rotor and the length of its outer diameter create a long slip path to minimize product slip and maximize efficiency, even on low viscosity products.

QUICK AND EASY MAINTENANCE

The FL2's seals are extremely simple. Their unique design locks both the stationary and rotary seals in place. No pins or set screws are required. The pump's components are designed to fit one way only—the right way—for easy and correct installation. Rotor gaps are set outside the gearbox using a simple gapping spacer. All bearings and gears run in an easily viewed oil bath. The low maintenance oil lubrication lasts 8 times longer than grease.

COMPLETE CLEANABILITY

The seal and housing are designed for thorough, easy CIP cleaning with rotors in place. Well designed gasketing avoids crevices and hard to clean areas. Rotor-to-housing clearances allow turbulent flow at all points in the housing during CIP. Optional high-temperature rotors allow for SIP. Simple vertical mounting makes the pump entirely self-draining.



GENERAL SPECIFICATIONS

Max. Discharge Pressure: 170 psi
(11.7 bar)
Max. Flow Rate: 380 gpm (86 m³/hr)
Max. Viscosity: 100,000 cps
316L stainless steel housing, cover,
shaft and rotors
Single or double mechanical seals
CIP/SIP cleanable

OPTIONS

High-temperature rotors
Jacketed housing and cover

PHARMACEUTICAL PACKAGE

Surface finish to 15 Ra
Electropolish
Silicon carbide seal materials
USP Class VI elastomers
Passivation and electropolish
Validation documentation

Fristam
PUMPS®

Engineered For Lasting Performance®

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FL2 Model	15	58S	58L	75S	75L	100S	100L	130S	130L
Gallons Per Revolution (Liters)	0.0056 (.021)	0.0267 (.101)	0.039 (.148)	0.072 (.273)	0.098 (.371)	0.176 (.666)	0.274 (1.04)	0.465 (1.76)	0.645 (2.44)
Maximum Pressure (Bar)	130 psi (9 bar)	130 psi (9 bar)	115 psi (7.9 bar)	170 psi (11.7 bar)	120 psi (8.3 bar)	170 psi (11.7 bar)	120 psi (8.3 bar)	170 psi (11.7 bar)	120 psi (8.3 bar)
Fitting Size	0.75"	1"	1.5"	1.5"	2"	2.5"	3"	3"	4"

Composite Performance Curves

Curves are based on 70°F water and full-speed operation. Additional curves can be found at www.fristam.com/tech.

FRISTAM POSITIVE DISPLACEMENT PUMPS FL2 15-75

FL2 100-130

