

FI Series Pump | Submittal Data

Submittal No: 301-2114D | Model: 2509D | RPM: 1450 - 50 Hz | Effective: January 27, 2020 | Supersedes: January 31, 2019

JOB: _____

REPRESENTATIVE: _____

ENGINEER: _____

CONTRACTOR: _____

PRODUCT DATA

ITEM NO. _____ MODEL NO. 2509D

IMPELLER DIAMETER _____ HORSEPOWER _____

GPM _____ VOLTAGE _____

HEAD/FT _____ RPM 1450

WEIGHT _____ PUMP/MOTOR _____

NSF 61 CERTIFIED YES NO

DIMENSIONS

Model No. | 2509D

Flange Size (Suction x Discharge) | 3 x 2 1/2 (76 x 64)

HORSEPOWER		2	3	5	7.5
ODP	MOTOR FRAME	145T	182T	184T	213T
	G MAX	13.13 (333)	15.13 (384)	16.63 (422)	19.08 (485)
	MAXIMUM ASSEMBLY WEIGHT LBS. (KG)	301 (137)	329 (149)		405 (184)
TEFC	MOTOR FRAME	145T	182T	184T	213T
	G MAX	15.67 (398)	18.19 (462)		19.02 (483)
	MAXIMUM ASSEMBLY WEIGHT LBS. (KG)	301 (137)	329 (149)		405 (184)
A		ANSI Class 125: 4.72 (120)			
		ANSI Class 250: 4.98 (126)			
B		ANSI Class 125: 10.00 (254)			
		ANSI Class 250: 10.31 (262)			
C		17.18 (436)			
D		40.0 (1016)			43.0 (1092)
E		ANSI Class 125: 1.35 (34)			
		ANSI Class 250: 1.09 (28)			
F		11.28 (286)			
J		ANSI Class 125: 18.35 (466)			
		ANSI Class 250: 18.61 (473)			
K		15.68 (398)			
N		2.00 (51)			
P		36.0 (914)			39.0 (991)

English dimensions are in inches. Metric dimensions are in millimeters.
Metric data is presented in (). Do not use for construction purposes unless certified.

Configuration	DOE Basic Model Number	PEI Value		Energy Rating
Bare Pump	FI2509D-4P-BP	PEI _d	0.88†	12†
Pump + Motor	FI2509D-4P-PM	PEI _d	0.88†	12†

†PEI/ER values based on 60Hz test.

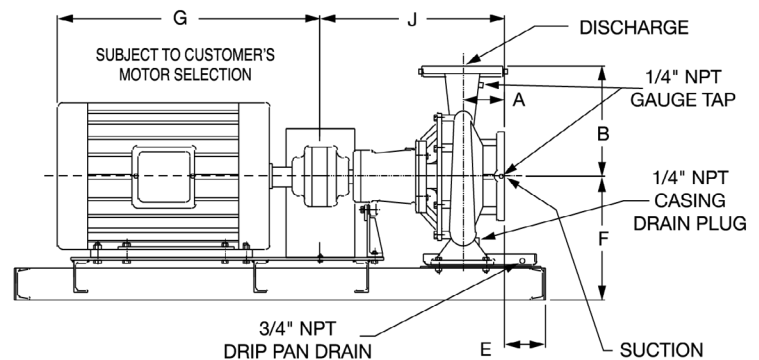
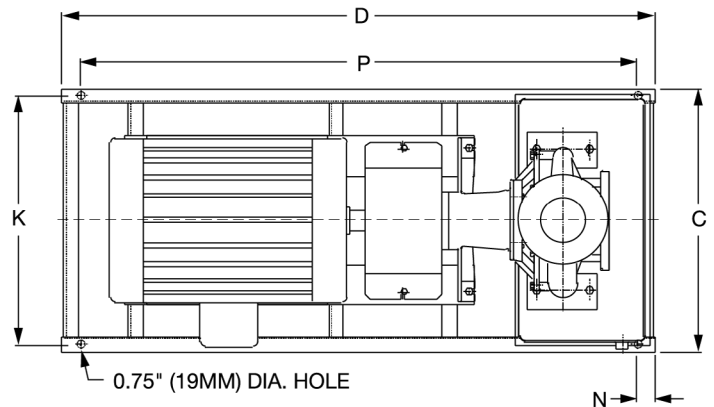
OPERATING SPECIFICATIONS

FLANGE	PRESSURE	TEMPERATURE
ANSI Class 125	175 PSIG* (1210 KPA)	250°F (120°C)
ANSI Class 250	300 PSIG** (2070 KPA)	250°F (120°C)

Motors: All NEMA Standard (T Frame)

* In accordance with ANSI Standard B16.1 Class 125

** In accordance with ANSI Standard B16.1 Class 250



MATERIALS OF CONSTRUCTION			CASING	COVER	IMPELLER	WEAR RING	SHAFT	SHAFT SLEEVE	MECHANICAL SEAL	SEAL FLUSH LINE ASSEMBLY
STANDARD CONSTRUCTION	BRONZE FITTED	125# FLANGE	Cast Iron ASTM A48/A48M-03 Class 30A	Cast Iron ASTM A48/A48M-03 Class 30A	Bronze ASTM B584 ALLOY C83600 or C84400	N/A	Stainless Steel TYPE 416™ ASTM A582	Bronze ASTM B584-98A C92200	Ceramic/EPT	N/A
		250# FLANGE	Ductile Iron ASTM A536-84 Grade 65-45-12	Cast Iron ASTM A48/A48M-03 Class 30A	Bronze ASTM B584 ALLOY C83600 or C84400	N/A	Stainless Steel TYPE 416™ ASTM A582	Bronze ASTM B584-98A C92200	Ceramic/EPT	N/A
OPTIONAL		125# OR 250#	N/A	N/A	Stainless Steel ASTM A351/A 351M-08	Bronze ASTM B584-98A C92200	N/A	Stainless Steel TYPE 303 ASTM A276	Tyngsten Carbide /EPT or Silicon-Carbide/EPT	Copper & Brass C3600
STANDARD CONSTRUCTION	NSF 61	125# FLANGE	Cast Iron ASTM A48/A48M-03 Class 30A	Cast Iron ASTM A48/A48M-03 Class 30A	Stainless Steel ASTM A351/A 351M-08	N/A	Stainless Steel TYPE 416™ ASTM A582	Bronze ASTM B584-98A C92200	Ceramic/EPT	Copper & Brass C3600
		250# FLANGE	Ductile Iron ASTM A536-84 Grade: 65-45-12	Cast Iron ASTM A48/A48M-03 Class 30A	Stainless Steel ASTM A351/A 351M-08	N/A	Stainless Steel TYPE 416™ ASTM A582	Bronze ASTM B584-98A C92200	Ceramic/EPT	Copper & Brass C3600
OPTIONAL		125# OR 250#	N/A	N/A	N/A	Bronze ASTM B584-98A C92200	N/A	N/A	N/A	N/A

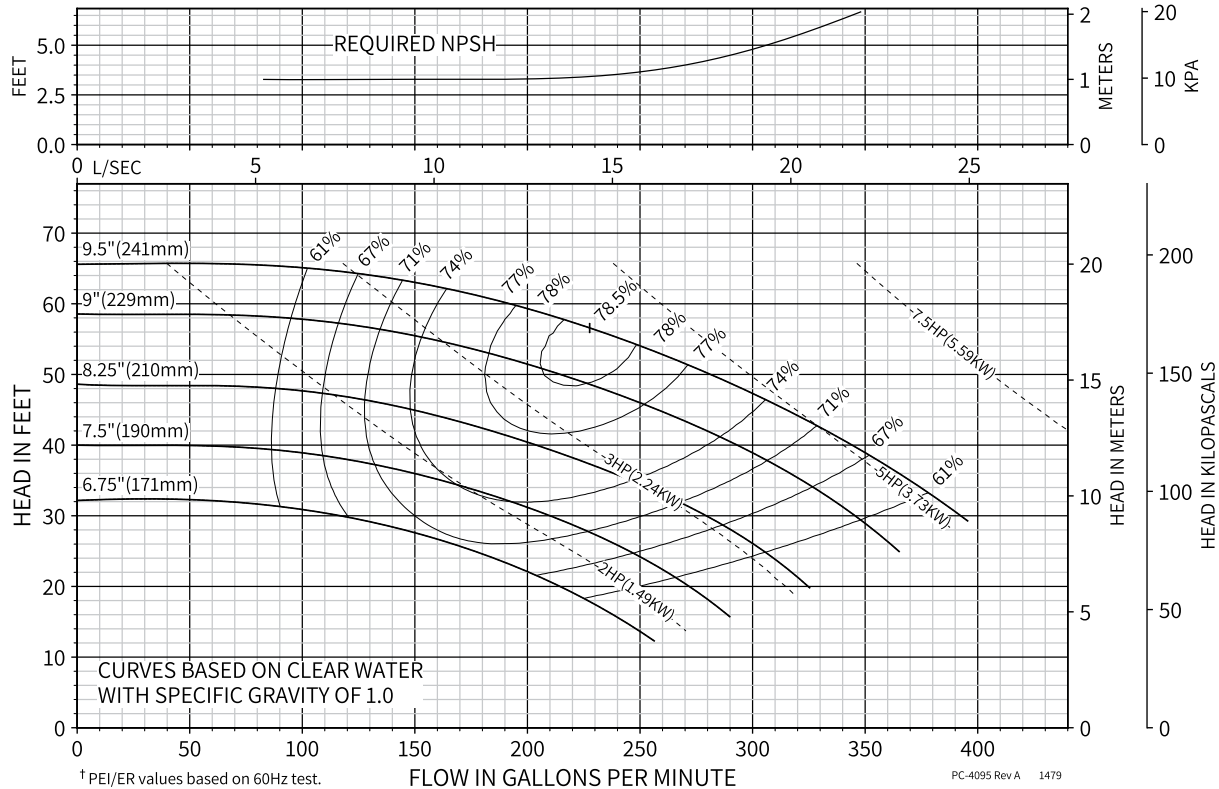
N/A - Not Available



FI Series | Model: 2509D | 1450 RPM

Curve No. 4095 | Min. Imp. Dia. 6.75" | Size 3x2.5x9.5 | January 31, 2020

Energy Efficiency Rating: DOE Basic Model Number: FI2509D-4P-PM
Pump & Motor: PEI_{CL}: 0.88[†] | ER_{CL}: 12[†]



COMMENTS