

STA-RITE® FN Series

Cast iron self-priming shallow well jet pumps



The FN Series provides strong performance with good pressure for wells to 25' deep. Self-priming after the priming chamber has been filled with water.

APPLICATIONS

Water systems and sprinkling...
for homes, farms and cottages.

SPECIFICATIONS

FNC Priming Time (in minutes):

at 15': 2.25 minutes max.
at 25': 6.5 minutes max.

FND Priming Time (in minutes):

at 15': 1.7 minutes max.
at 25': 4.4 minutes max.

Max. Liquid Temperature: 140°F

FNC Max. Inlet Pressure: 60 PSI

FND Max. Inlet Pressure: 50 PSI

Max. Inlet PSI + Pump Discharge PSI:
Not to exceed 100 PSI

Body and Base: Close-grained cast iron

Nozzle: High-strength polycarbonate

Venturi: Polycarbonate

Impeller: Noryl®

Diffuser: Reinforced polypropylene

Shaft: One-piece threaded stainless steel

FEATURES

Quality Construction: Close-grained cast iron body and base, specially treated for corrosion resistance. Drain port provided for easy winterizing.

Built-in Jet: High-strength polycarbonate nozzle and venturi for maximum resistance to corrosion and abrasion. Cleanout plug provided for ease of service.

Noryl Impeller: Precision-molded for perfect balance...ultra-smooth for highest performance and efficiency.

Precision-Molded Diffuser: Pump primes faster, handles more air, with multi-port, precision-molded, reinforced polypropylene diffuser.

Mechanical Shaft Seal: Precision lapped and highly polished carbon-ceramic, stainless steel construction. Internal design guarantees continuous water lubrication.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants...assure prolonged motor life.

Balanced Rotor: Diecast under high pressures for uniform performance and greater efficiency, dynamically balanced.

Heavy-Duty Ball Bearings: Sealed, permanently lubricated bearings, extensively tested to ensure extended life and smooth, quiet operation.

Pump and Motor Shaft: Stainless steel for maximum corrosion resistance; one-piece threaded shaft for positive impeller drive and alignment.

Dustproof Cover: All electrical components are protected from dirt, dust and insects by a dustproof canopy; ventilating air cannot contaminate vital switching components.

Pressure Switch: Adjustable cut-in and fixed differential (20 PSI).

ORDERING INFORMATION

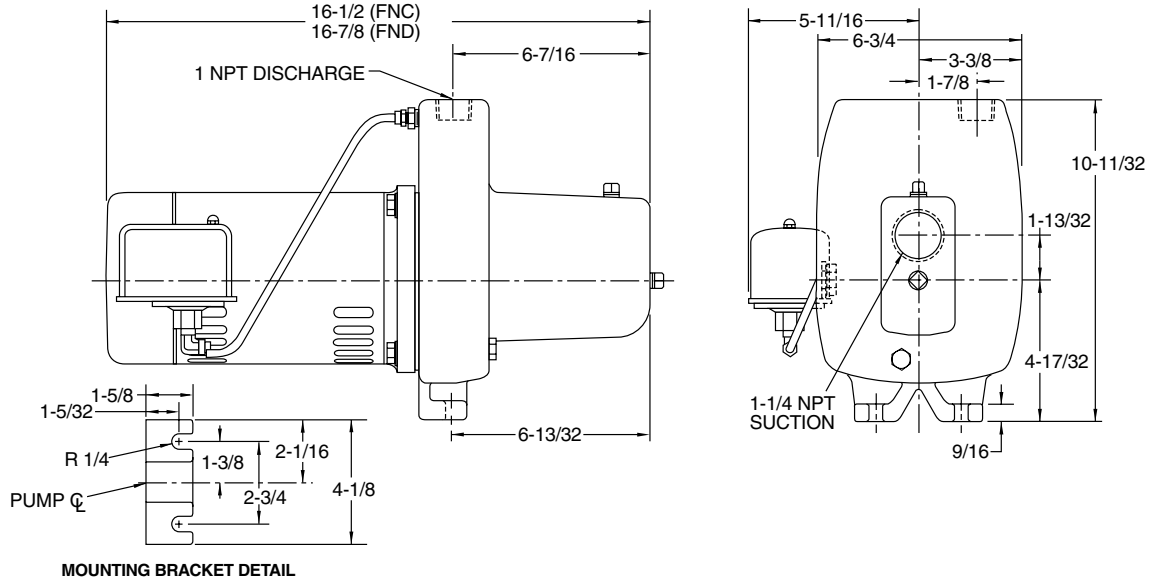
CATALOG NUMBER	HP	SWITCH SETTING	DESCRIPTION	PIPE TAPPING SIZES		MOTOR VOLTAGE	APPROX. WT. LBS.
				SUCTION	DISCHARGE		
FNC	1/2	30-50	Shallow Well Jet	1-1/4"	1"	115/230	46
FND	3/4	30-50	Shallow Well Jet	1-1/4"	1"	115/230	47

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STA-RITE® FN Series

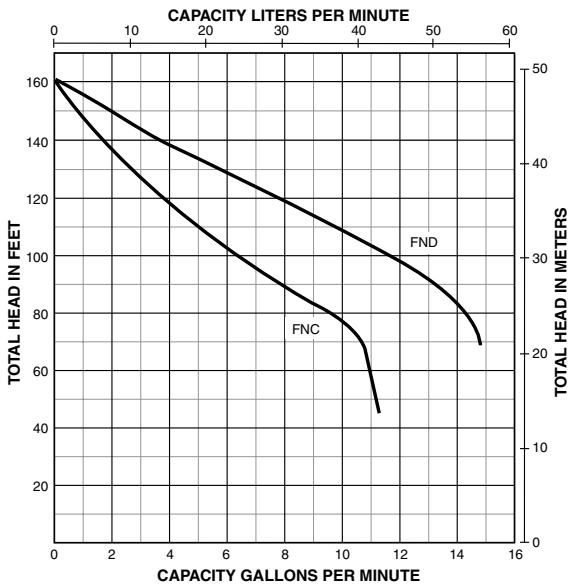
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OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

PUMP PERFORMANCE



PUMP PERFORMANCE (CAPACITY IN GALLONS PER MINUTE)

CATALOG NUMBER	HP	DISCH. PRESSURE		DYNAMIC SUCTION LIFT					SHUT-OFF PRESSURE PSI
		PSI	FEET HEAD	5'	10'	15'	20'	25'	
FNC	1/2	20	46.2	9.8	8.8	7.5	6.2	4.5	69
		30	69.3	9.2	8.2	7.2	5.9	4.2	
		40	92.4	6.9	6.0	5.3	4.5	4.0	
		50	115.5	3.8	3.5	2.7	1.9	1.4	
FND	3/4	30	69.3	15.0	13.0	11.6	8.7	6.9	70
		40	92.4	12.5	11.4	10.1	8.2	6.8	
		50	115.5	8.0	6.8	6.1	4.8	3.5	

Pump will operate at all depths shown, with pressure switch set at 30-50 PSI.

Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.