



# 4" multi-stage submersible pump



This product is Listed to UL Standards for Safety by Underwriters Laboratories Inc. (UL).



**The STEP Plus™ D Series 4" submersible pump in 10, 20 and 30 GPM models dominate with superior "DRAW-DOWN" capability.**

**The STEP Plus™ D Series 4" submersible pump dominates with reduced AMP DRAW.**

**The STEP Plus™ D Series 4" submersible pump dominates with COOLER and QUIETER operation.**

### APPLICATIONS

- **Clean and Gray Water...** for residential, commercial, and agricultural use.

### SPECIFICATIONS

**Motor** – Available in 115 or 230 volt versions. Dry-wound, double ball-bearing, double-seal and thermal over-load protected, UL and CSA approved.

**Shell** – Stainless steel (300 grade)

**Discharge** – Fiberglass-reinforced thermoplastic

**Discharge Bearing** – Nylatron®

**Impellers** – Acetel

**Diffusers** – Polycarbonate

**Suction Caps** – Polycarbonate with stainless steel wear ring

**Thrust Pads** – Proprietary spec.

**Shaft and Coupling** – Stainless steel 300 grade

**Intake** – Fiberglass-reinforced thermoplastic

**Intake Screen** – Stainless steel

**Jacketed Cord** – 600 Volt "SJOW" jacketed 10' leads, 2-wire with ground

**Agency Listing** – UL and CSA

## STEP Plus™ D SERIES

### FEATURES

**STEP Plus DOMINATES with a...**

**Patented Stage System** – The proven SignaSeal™ staging system utilizes a patented ceramic wear surface. When incorporated with STA-RITE's "true" independent floating impellers, dominates with 1st-in-class performance, superior sand handling, and a thrust management staging system with industry exclusive "dry-run" capabilities.

**Superior "draw-down" capability** – The STEP Plus Dominates in this class with the lowest draw-down of 4-1/2" (a standard 4" NEMA submersible only draws-down to 13-1/2").

**Reduced amp draw** – The STEP Plus Dominates in this class with less energy consumption – over 25% less amp draw (9.5 amps vs. 12.7 amps, 115 volt) than a 4" NEMA submersible, reducing operating costs and extending the service life of float switch contacts.

**Cooler and quieter operation** – The STEP Plus Dominates by using the pumped liquid to cool the motor as it passes over the motor. The water passing over the motor dampens the motor noise, eliminating expensive "flow-inducer sleeves" required when using a standard 4" NEMA submersible.

**Impellers** – Precision molded for perfect balance... ultra smooth for the highest performance and efficiency. Allows for .080" solids.

**Shaft** – Positive drive, hexagonal 7/16" – 300-grade stainless steel shaft offers generous impeller drive surfaces.

**Shaft bearing** – Exclusive self-lubricating Nylatron® bearing resists wear surface from sand and abrasives.

**Shell** – Heavy-walled, corrosion resistant 300-grade stainless steel.

### ORDERING INFORMATION

Catalog Number	HP	Max. Load Amps	Volts	Phase/Cycles	Cord Length	Pallet Quantity	Weight (Lbs.)
10DOM05221	1/2	5.5	230	1/60	10'	80	16
10DOM05121	1/2	11.0	115	1/60	10'	80	16
20DOM05221	1/2	4.6	230	1/60	10'	80	16
20DOM05121	1/2	9.5	115	1/60	10'	80	16
30DOM05221	1/2	4.6	230	1/60	10'	80	16
30DOM05121	1/2	9.5	115	1/60	10'	80	16
20DOM05221+1	1/2	5.3	230	1/60	10'	80	16
20DOM05121+1	1/2	10.6	115	1/60	10'	80	16

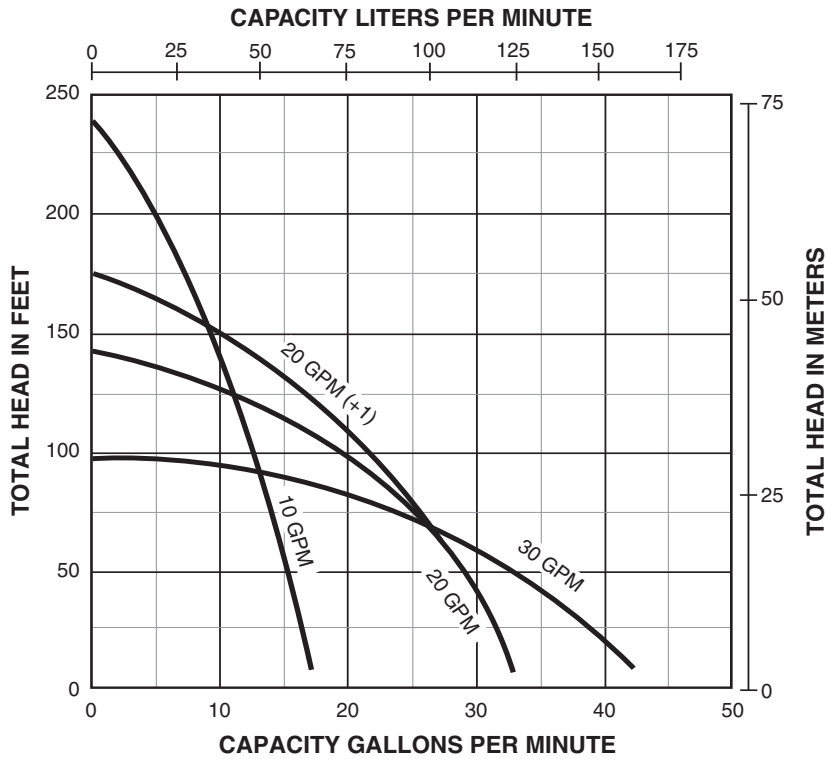
Nylatron® is a registered trademark of Polymer Corp. SignaSeal™ and STEP Plus™ are trademarks of WICOR Industries.

In order to provide the best products possible, specifications are subject to change.



# 4" multi-stage submersible pump

## PUMP PERFORMANCE

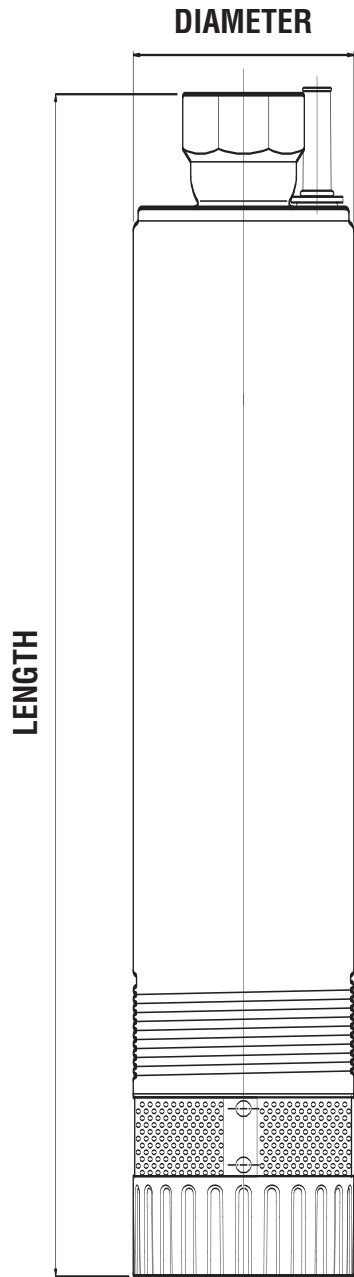


PUMP PERFORMANCE (Capacity in Gallons per Minute)		PSI											
Pump Model	Flow Rate (GPM)	0	10	20	30	40	50	60	70	80	90	100	110
10DOM05221	10			15.0	13.7	12.7	11.5	10.2	8.4	6.5	4.3	1.0	
10DOM05121	10			15.0	13.7	12.7	11.5	10.2	8.4	6.5	4.3	1.0	
20DOM05221	20			30.0	26.0	21.5	14.2	4.4					
20DOM05121	20			30.0	26.0	21.5	14.2	4.4					
30DOM05221	30		38.5	33.3	25.8	16							
30DOM05121	30		38.5	33.3	25.8	16							
20DOM05221+1	20 + 1			30	27.5	24	20	13.5	6				
20DOM05121+1	20 + 1			30	27.5	24	20	13.5	6				

PUMP PERFORMANCE (Capacity in Liters per Minute)		Bar											
Pump Model	Flow Rate (LPM)	0	.69	1.38	2.07	2.76	3.45	4.13	4.82	5.51	6.20	6.89	7.58
10DOM05221	37.85		56.8	51.9	48.1	43.5	38.6	31.8	24.6	16.3	3.8		
10DOM05121	37.85		56.8	51.9	48.1	43.5	38.6	31.8	24.6	16.3	3.8		
20DOM05221	75.7		113.6	98.4	81.4	53.7	16.7						
20DOM05121	75.7		113.6	98.4	81.4	53.7	16.7						
30DOM05221	113.55	145.7	126.0	97.7	60.6								
30DOM05121	113.55	145.7	126.0	97.7	60.6								
20DOM05221+1	75.7 + 1			113.4	103.9	90.7	75.6	51.0	22.6				
20DOM05121+1	75.7 + 1			113.4	103.9	90.7	75.6	51.0	22.6				

# 4" multi-stage submersible pump

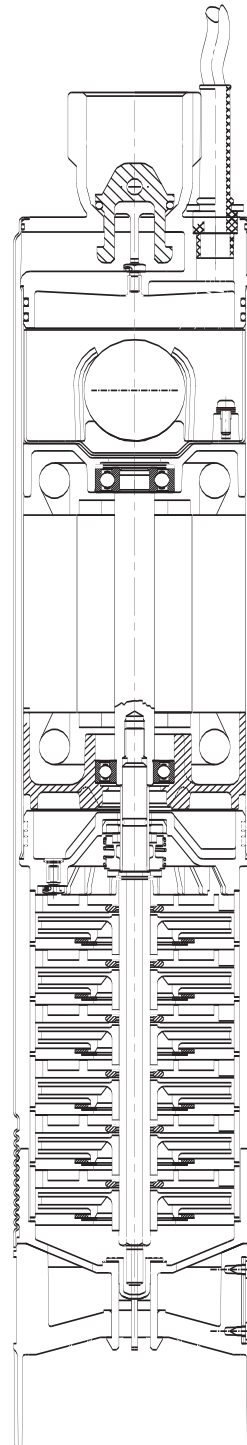
## OUTLINE DIMENSIONS



GPM	Length	Diameter
10	21.6" (549 mm)	3.86" (98 mm)
20	20.8" (529 mm)	3.86" (98 mm)
30	20.6" (523 mm)	3.86" (98 mm)
20+1	22.3" (567 mm)	3.86" (98 mm)

Dimensions are for estimating purposes only.

## CROSS-SECTION





# 4" multi-stage submersible pump