

A+ SUPER SUB Series – stainless steel

The A+ Super Sub Series Stainless Steel 4" Submersible Pumps deliver efficient and dependable performance even in rough, aggressive water. Heads to 640 feet and capabilities to 120 GPM. Built to deliver long-term, trouble-free service. FDA compliant engineered composite and stainless steel components.

- ▶ **Discharge** – Heavy-duty 300 grade stainless steel construction provides smooth water passage to column pipe. Large wrench flats and rope hole
- ▶ **Top Bearing** – Field-proven A+, sealed and lubricated top bearing assembly keeps abrasives out, ensuring long bearing life
- ▶ **Impellers** – 20% glass-reinforced polycarbonate to resist abrasives and provide smooth water passage for minimal friction loss
- ▶ **Diffuser Bearing** – Urethane bearings at each stage provide radial protection and stability, and excellent resistance to sand damage
- ▶ **Motor Bracket** – 300 grade precision cast stainless steel. Incorporates an efficient hydraulic design for maximum volume and access to motor mounting nuts
- ▶ **Shaft** – 300 grade “treated” stainless steel pump shaft is corrosion-resistant. The hex shape offers generous impeller drive surfaces.
- ▶ **Motor Coupling** – Pressed on, sintered 300 grade stainless steel for maximum corrosion resistance provides trouble-free transfer of power between motor and pump shaft
- ▶ **Shell** – Heavy-gauge, 300-series stainless steel pump shell is durable and offers high corrosion resistance
- ▶ **Intake Screen** – 300 series stainless steel material offers maximum corrosion resistance and protects against damaging solids entering the pump
- ▶ **Upthrust Bearing** – Phenolic washers and stainless steel up thrust rings at each stage provide excellent wear resistant surfaces (90 GPM only)

specifications

Discharge – 300 grade stainless steel with 2" NPT threads

Top Bearing – Acetal, A+ design

Top Bearing Journal – 300 grade stainless steel, A+ design

Diffuser Assembly – 35, 50 and 75 GPM models: Noryl® (20% glass filled)

Up-Thrust Washers – Phenolic

Impellers – Polycarbonate (20% glass filled)

Intermediate Bearing – Acetal

Intermediate Bearing Journal – 300 grade stainless steel

Shaft – 300 grade stainless steel

Coupling – 300 grade stainless steel, 7/16" hex stock

Shell – 300 grade stainless steel

Motor Adapter – 300 grade stainless steel

Suction Screen – 300 grade stainless steel

Cable Guard – 300 grade stainless steel

Fasteners – 300 grade stainless steel

90 GPM MODELS ONLY:

Diffuser Assembly – Noryl® (20% glass filled with Urethane insert and 300 grade stainless steel)

Impeller Eye Seals – Urethane

Bowls – Noryl® (20% glass filled)



application

Water systems... for residential, industrial, commercial, multiple housing and farm use

certification



This product is Listed to UL and CSA Standards for Safety by CSA International.

Flomatic® is a registered trademark of Flomatic Corp. Noryl® is a registered trademark of General Electric Co.

A+ SUPER SUB Series – stainless steel

ordering information – single phase, 1-5 HP

HP	Series	GPM	Stages	Volt.	Pump End Assembly ¹			Motor and Lead ² Assembly			Control Box	
					Order No.	Length	Weight	Order No.	Length	Weight	Order No.	Weight
1	A+35 2W	35	5	230	88903-NCSS	16-5/8	14	244 508 90	11-3/4	24	Not Required	
	214 508 90							280 108 49			3	
1-1/2	A+35 2W	35	7	230	88904-NCSS	20-7/8	15	244 309 90	15-1/8	31	Not Required	
	A+35 3W							224 300 92	13-5/8	28	282 300 81	7
	A+50 2W	50	5		88908-NCSS	16-5/8	14	244 309 90	15-1/8	31	Not Required	
	A+50 3W							224 300 92	13-5/8	28	282 300 81	7
2	A+35 3W	35	8	230	89125-NCSS	40-1/4	18	224 301 92	15-1/8	32	282 301 81	7
	A+50 3W	50	6		88909-NCSS	33-7/8	15					
	A+75 3W	75	5		89116-NCSS	44-3/8	15					
	NEW! A+90 3W	90	5		A+90SS-200	20	15					
3	A+35 3W	35	11	230	89127-NCSS	55	23	224 302 26	22-1/4	52	282 302 81	8
	A+50 3W	50	9		88909-NCSS	48-5/8	13					
	A+75 3W	75	7		89116-NCSS	44-1/2	11					
	NEW! A+90 3W	90	7		A+90SS-300	25-1/2	17					
5	A+35 3W	35	19	230	89129-NCSS	76	31	224 303 52	28-1/4	69	282 113 81	14
	A+50 3W	50	15		88911-NCSS	67-3/8	19					
	A+75 3W	75	11		89118-NCSS	59	15					
	NEW! A+90 3W	90	12		A+90SS-500	40-1/4	19					

ordering information – three phase, 1-1/2 – 7-1/2 HP

HP	Series	GPM	Stages	Volt.	Pump End Assembly ¹			Motor and Lead ⁴ Assembly			Control Box ³	
					Order No.	Length	Weight	Order No.	Length	Weight	Order No.	Weight
1-1/2	A+35	35	7	200	88905-NCSS	20-7/8	15	234 504 92	12-1/2	24	See Note #3.	-
				230				234 514 92				
				460				234 524 94				
	A+50	50	5	200	88908-NCSS	16-5/8	14	234 504 92	12-1/2	24	See Note #3.	-
				230				234 514 92				
				460				234 524 94				
2	A+35	35	9	200	88125-NCSS	25-1/8	18	234 305 92	13-5/8	29	See Note #3.	-
				230				234 315 92				
				460				234 325 94				
	A+50	50	6	200	88909-NCSS	18-7/8	15	234 305 92	13-5/8	29	See Note #3.	-
				230				234 315 92				
				460				234 325 94				
	A+75	75	5	200	89117-NCSS	16-5/8	15	234 305 92	13-5/8	29	See Note #3.	-
				230				234 315 92				
				460				234 325 94				
	NEW! A+90	90	5	200	A+90SS-200	20	15	234 305 92	13-5/8	29	See Note #3.	-
				230				234 315 92				
				460				234 325 94				
										1095-K43	6	
										1096-K33		

¹ Pump and motor shipped separately. All pump ends have a 2" NPT discharge.

² 2 HP motor and below include 48" lead, 3 and 5 HP motors include 100" lead.

³ Magnetic contactor required for 3 HP and larger units – order separately or as part of deluxe control box.

⁴ 2 HP motor and below include 48" lead, 3 – 7-1/2 HP motors include 100" lead.

NOTE: NO CHECK VALVE. External check valve must be purchased separately.

A+ SUPER SUB Series – stainless steel

ordering information – three phase, 1-1/2 – 7-1/2 HP (Cont'd)

HP	Series	GPM	Stages	Volt.	Pump End Assembly ¹			Motor and Lead ⁴ Assembly			Control Box ³		
					Order No.	Length	Weight	Order No.	Length	Weight	Order No.	Weight	
3	A+35	35	11	200	89127-NCSS	31-1/2	23	19-1/4	44	See Note #3.	-		
				230								234 306 26	
				460								234 316 26	
	A+50	50	9	200	88910-NCSS	25-1/8	13	19-1/4	44	See Note #3.	-		
				230								234 306 26	
				460								234 316 26	
	A+75	75	7	200	89117-NCSS	20-7/8	11	19-1/4	44	See Note #3.	-		
				230								234 306 26	
				460								234 316 26	
	NEW! A+90	90	7	200	A+90SS-300	25-1/2	17	19-1/4	44	See Note #3.	-		
				230								234 306 26	
				460								234 316 26	
5	A+35	35	18	200	89129-NCSS	46-3/8	31	22-1/4	55	See Note #3.	-		
				230								234 307 52	
				460								234 317 52	
	A+50	50	15	200	88911-NCSS	37-7/8	19	22-1/4	55	See Note #3.	-		
				230								234 307 52	
				460								234 317 52	
	A+75	75	11	200	89118-NCSS	29-3/8	15	22-1/4	55	See Note #3.	-		
				230								234 307 52	
				460								234 317 52	
	NEW! A+90	90	12	200	A+90SS-500	40-1/2	19	22-1/4	55	See Note #3.	-		
				230								234 307 52	
				460								234 317 52	
7-1/2	A+50	50	22	200	88912-NCSS	52-3/4	33	28-1/4	70	See Note #3.	-		
				230								234 308 52	
				460								234 318 52	
	A+75	75	17	200	89119-NCSS	42	32	28-1/4	70	See Note #3.	-		
				230								234 308 52	
				460								234 318 52	
	NEW! A+90	90	19	200	A+90SS-750	60	32	28-1/4	70	See Note #3.	-		
				230								234 308 52	
				460								234 318 52	
	NEW! A+90	90	23	230	A+90SS-1000	71-3/8	19	30-1/2	120	1095-K67	1096-K55	6	
				460									234 308 52
				460									234 318 52

¹ Pump and motor shipped separately. All pump ends have a 2" NPT discharge.

² 2 HP motor and below include 48" lead, 3 and 5 HP motors include 100" lead.

³ Magnetic contactor required for 3 HP and larger units – order separately or as part of deluxe control box.

⁴ 2 HP motor and below include 48" lead, 3 – 7-1/2 HP motors include 100" lead.

NOTE: NO CHECK VALVE. External check valve must be purchased separately.

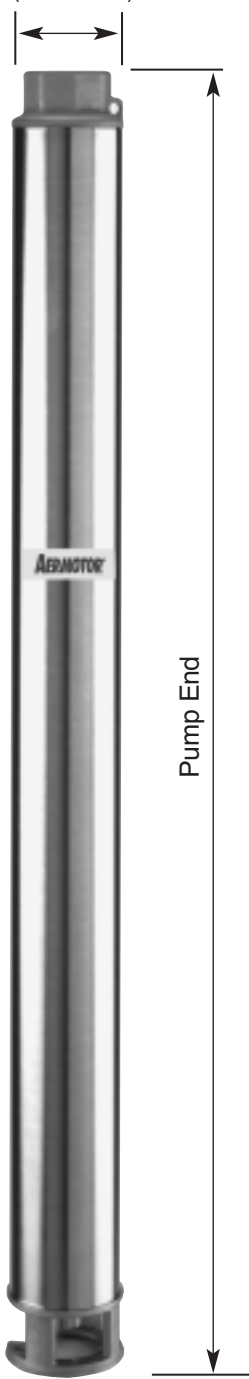
2" Flomatic® check valves

Flomatic® Model Number	NPT Thread Size	Case Quantity	Order Number	Weight Each
80D1-7937	2" F x 2" F	16	74131	5
80MDI-4084	2" M x 2" F	16	71995	4
100SS-4034SS2	2" F x 2" F	16	75894	4

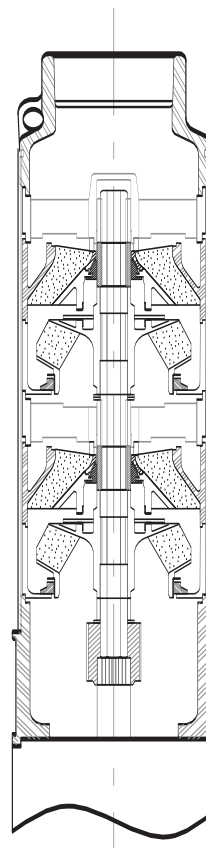
A+ SUPER SUB Series – stainless steel

outline dimensions/cross sectional view

3.9 Inches
(98.43 mm)



Pump End

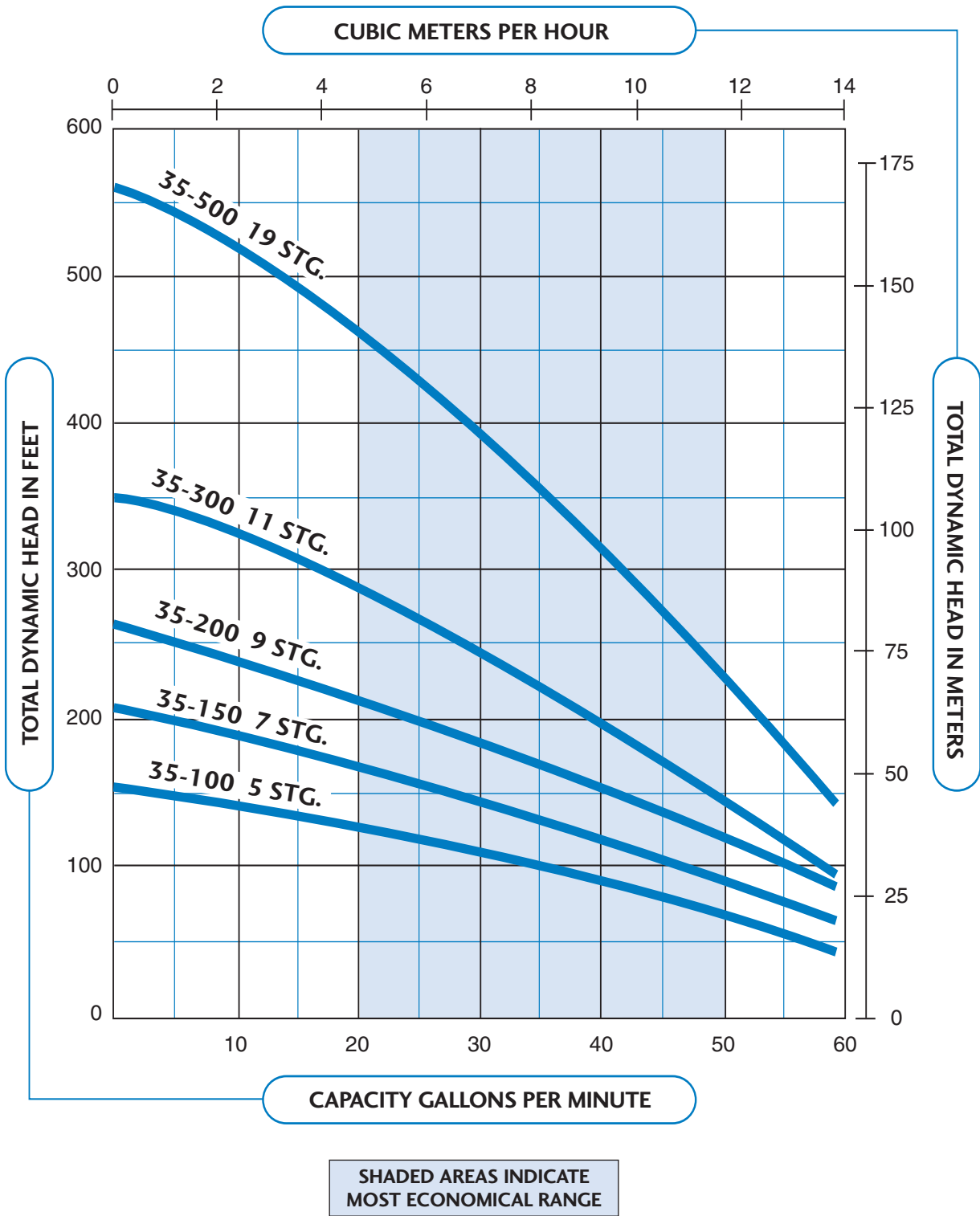


NEW! A+ 90

Dimensions are for estimating purposes only.

A+ SUPER SUB Series – stainless steel

35 GPM pump performance



A+ SUPER SUB Series – stainless steel

35 GPM pump performance

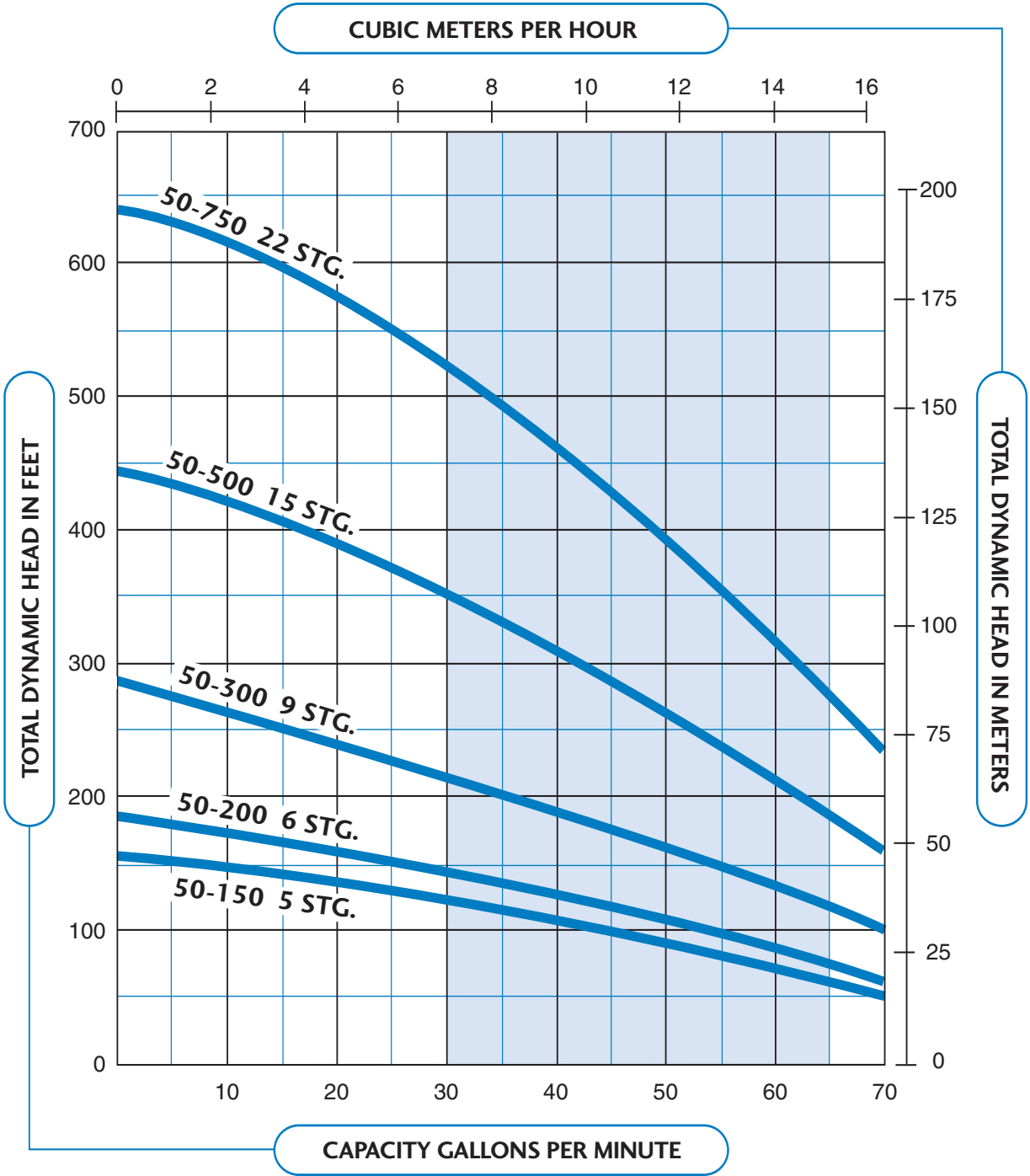
Pumping capacities in gallons per minute at indicated discharge pressures in pounds per square inch.

Model Number	HP	PSI	Depth to Water in Feet																							Shutoff Head									
			20	30	40	50	60	70	80	90	100	125	150	175	200	225	250	275	300	350	400	450	500	550	FEET	PSI									
35-100 (5-STG)	1	0	-	-	-	54.7	50.2	46.9	42.0	38.1	32.5	20.1																	150	65					
		20	48.0	44.1	39.9	34.7	29.8	24.9	18.0																										
		30	38.0	32.1	28.4	24.0	20.6																												
		40	27.0	21.5	15.3																														
35-150 (7-STG)	1-1/2	0	-	-	-	-	-	-	-	-	51.1	48.2	45.6	36.0	27.3	17.1														205	89				
		20	55.2	52.1	49.2	46.3	43.4	39.5	36.0	32.4	29.3	18.5																							
		30	48.2	46.0	41.9	38.2	34.3	31.6	27.2	23.5	18.9																								
		40	41.0	37.1	34.2	30.7	26.4	22.5	19.2																										
		50	33.0	28.7	24.4	21.3	18.5																												
		60	23.5	19.3	15.3																														
35-200 (9-STG)	2	0	-	-	-	-	-	-	-	-	-	-	52.8	45.5	38.0	31.5	23.4	15.1												265	115				
		20	-	-	-	-	51.0	48.1	45.2	42.2	38.5	32.3	24.9	16.4																					
		30	-	53.0	50.1	42.2	44.0	41.4	38.2	35.5	32.4	26.0	17.1																						
		40	49.5	46.0	43.7	40.6	37.7	34.1	32.0	28.4	26.0	18.1																							
		50	42.4	39.7	37.0	33.4	31.0	27.9	24.7	21.6	18.3																								
		60	35.7	32.4	30.0	26.3	23.8	19.9	17.1																										
70	28.8	26.0	22.7	19.8	16.0																														
35-300 (11-STG)	3	0	-	-	-	-	-	-	-	-	-	-	-	52.5	48.0	42.8	38.4	33.9	28.3	23.0	17.2										350	152			
		20	-	-	-	-	-	-	52.4	50.3	48.2	43.8	39.0	34.1	29.2	23.8	17.8																		
		30	-	-	-	-	51.5	49.8	48.0	46.1	44.0	39.7	34.8	29.8	24.2	19.8																			
		40	-	-	-	51.3	47.4	45.0	43.5	41.7	40.2	35.0	30.2	24.1	19.7																				
		50	50.5	48.7	47.3	44.9	43.0	41.3	39.5	37.4	35.5	30.6	25.1	19.8																					
		60	46.2	44.0	42.3	40.6	38.6	36.5	34.4	32.3	30.8	25.5	20.0																						
70	41.8	40.3	38.0	36.1	34.0	32.2	30.0	27.9	25.5	24.0	14.1																								
35-500 (19-STG)	5	0	-	-	-	-	-	-	-	-	-	-	-	-	-	52.7	50.0	47.1	44.4	41.6	35.4	29.3	21.8	14.0										563	244
		20	-	-	-	-	-	-	-	-	-	-	53.2	50.5	47.3	44.8	42.0	39.2	36.0	29.9	22.0	14.6													
		30	-	-	-	-	-	-	-	-	-	53.6	50.8	48.0	45.1	42.2	39.4	36.1	33.2	26.3	19.1														
		40	-	-	-	-	-	-	-	-	53.8	51.0	48.2	45.3	42.6	39.8	36.5	33.5	30.4	26.8	19.5														
		50	-	-	-	-	-	-	53.4	52.2	51.3	48.5	45.4	42.6	39.8	36.5	33.5	30.5	27.0	23.2	15.2														
		60	-	-	-	-	53.0	51.8	50.8	49.5	48.4	45.4	42.7	39.9	36.7	33.5	30.5	27.0	23.2	15.2															
		70	54.8	53.9	52.5	51.4	50.0	49.5	48.0	48.7	45.7	42.6	40.2	37.1	34.0	30.9	27.5	24.1	20.0	11.7															

NOTE: External check valve not included.

A+ SUPER SUB Series – stainless steel

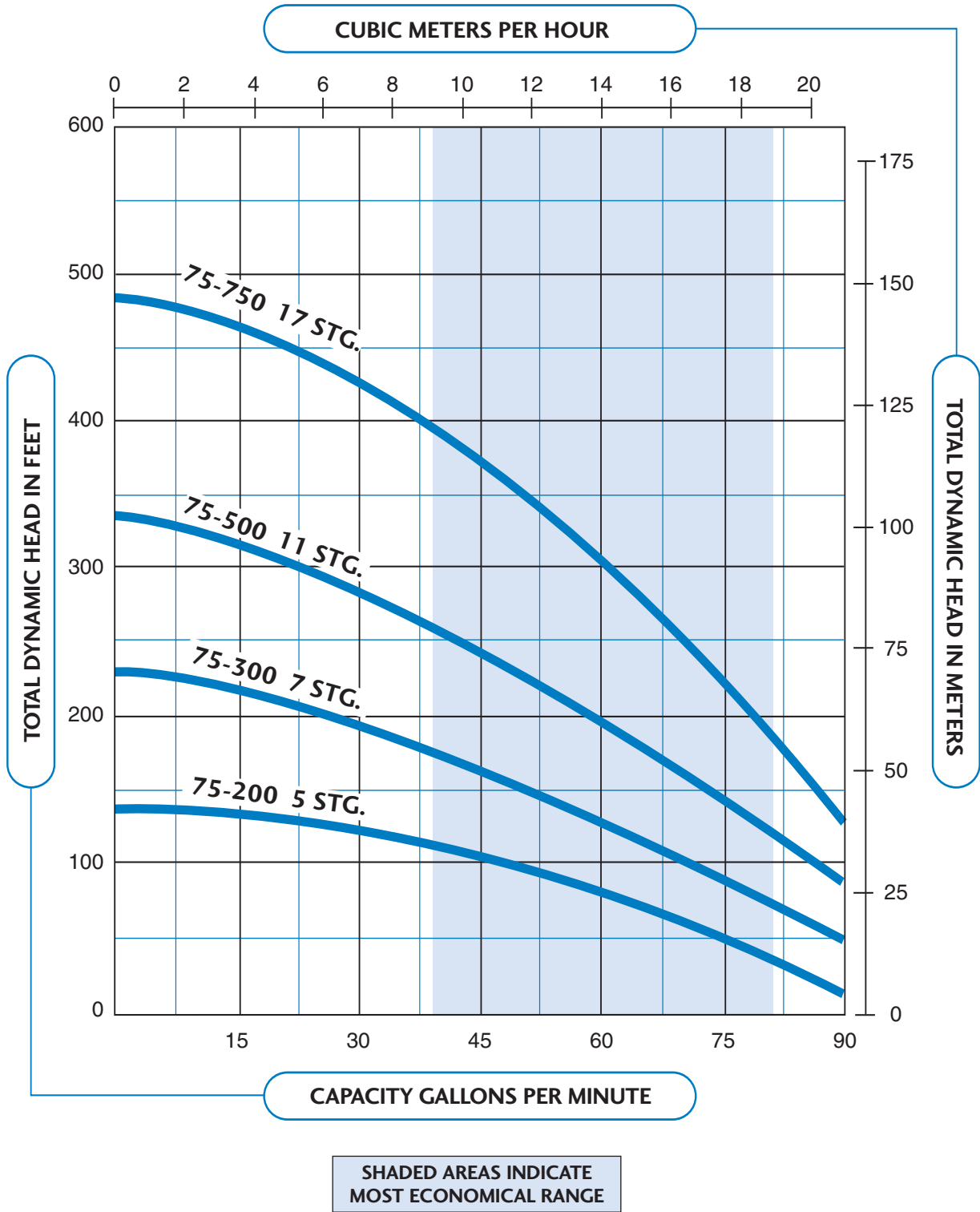
50 GPM pump performance



SHADED AREAS INDICATE MOST ECONOMICAL RANGE

A+ SUPER SUB Series – stainless steel

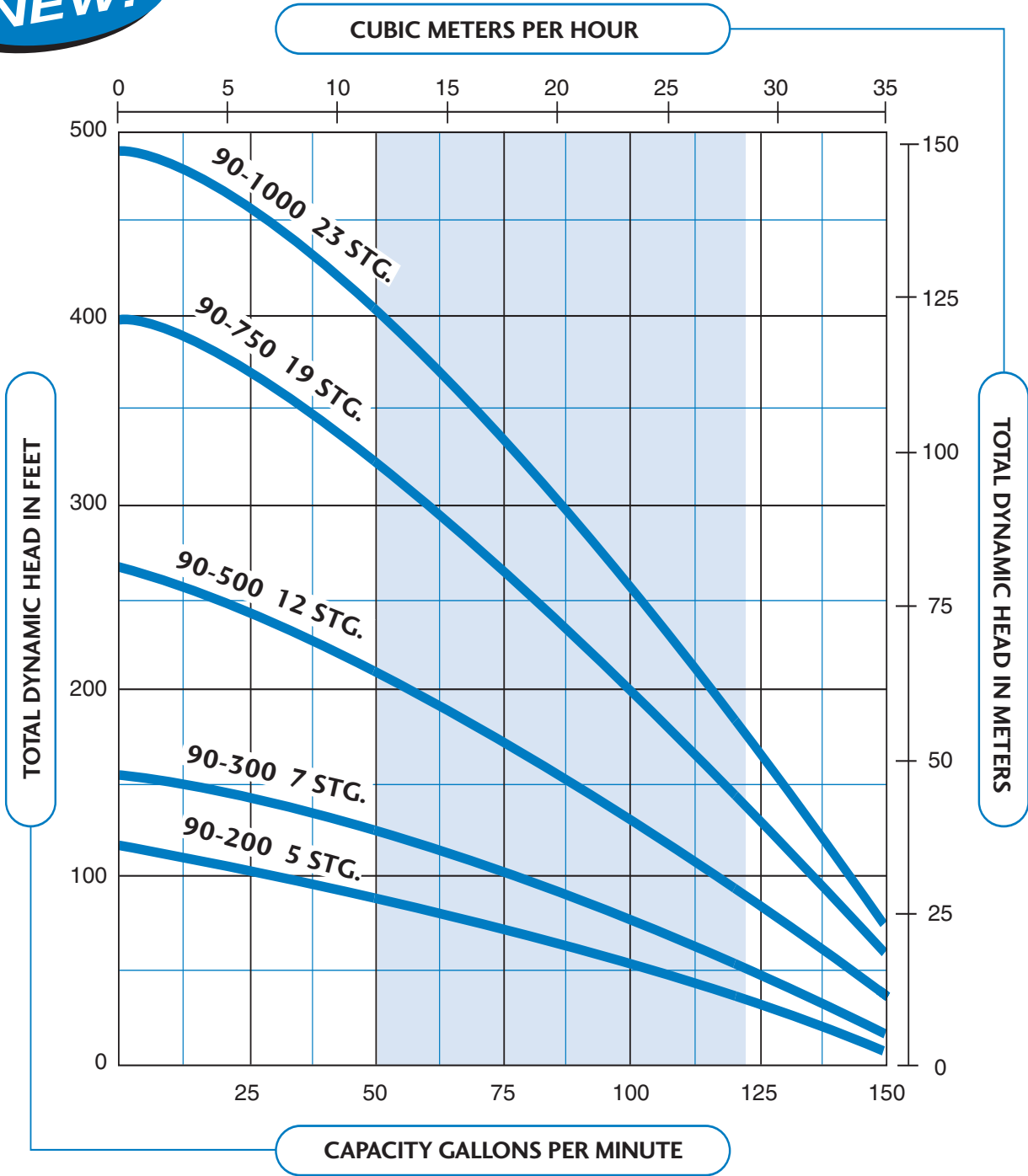
75 GPM pump performance



A+ SUPER SUB Series – stainless steel

90 GPM pump performance

NEW!



SHADED AREAS INDICATE MOST ECONOMICAL RANGE

A+ SUPER SUB Series – stainless steel

90 GPM pump performance

Pumping capacities in gallons per minute at indicated discharge pressures in pounds per square inch.

Model Number	HP	PSI	Depth to Water in Feet													Shutoff Head		
			20	40	60	80	100	125	150	175	200	250	300	350	400	FEET	PSI	
90-200 (5-STG)	2	0	-	115	90	60											109	48
		20	80	53														
		30	50															
		40																
		50																
		60																
90-300 (7-STG)	3	0	-	-	113	96	75	50									153	67
		20	108	90	69	50												
		30	87	66														
		40																
		50																
		60																
90-500 (12-STG)	5	0	-	-	-	-	115	103	86	72	56						258	112
		20	122	112	102	88	74	59										
		30	119	111	101	87	73	58										
		40	108	98	84	72	57											
		50	96	83	71	56												
		60	82	70	55													
90-750 (19-STG)	7-1/2	0	-	-	-	-	-	125	115	107	98	78	59				402	175
		20	-	-	-	123	116	108	100	90	79	61						
		30	-	-	121	115	107	99	91	80	71	53						
		40	-	120	114	106	98	92	81	72	61							
		50	119	113	105	97	93	82	73	62								
		60	112	104	96	94	83	74	63									
90-1000 (23-STG)	10	0	-	-	-	-	-	-	-	118	112	99	81	66	52		491	213
		20	-	-	-	-	-	119	113	106	100	83	67	53				
		30	-	-	-	-	120	114	107	101	93	75	60					
		40	-	-	-	119	114	107	101	94	84	68	54					
		50	-	-	118	114	108	102	95	85	77	62						
		60	125	117	113	108	102	94	86	78	70	55						

NOTE: External check valve not included.

4" submersible pumps

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