

# 4" submersible pump



## ST Series Stainless steel

ST



**5 YEAR WARRANTY  
ON 1/2 HP TO 1 HP**

The ST series are built with such precision that they provide a superior output for many years. These submersible pumps are also built to work under tough conditions even in abrasive water.

Part	Description
Check valve	External check valve made of stainless steel.
Discharge head & Motor bracket	Made of (304) stainless steel.
Shaft	Hexagonal shaft made of (303) stainless steel for corrosion and wear resistance.
Couplings	Made of stainless steel and fit perfectly to any 4" standard motor which allows maximum efficiency.
Diffuser *	Injection molded in Noryl.
Washer	Made of stainless steel, they prevent wearing of the impellers and diffusers.
Impeller *	Injection molded in Polycarbonate.
Disc*	Made of stainless steel.
Top bearing	Injection molded in Polypropylene plus fibers, with a rubber centre for an even more precise alignment of the shaft. The rubber center considerably reduces wearing of the shaft caused by sand.
Screen	Made of stainless steel, it prevents the impellers from large debris obstructions.
Cable guard	Made of stainless steel, corrosion resistant, protects motor lead.
Housing	Made of (T-304) stainless steel, it is threaded for easy maintenance.
Fasteners	All stainless steel fasteners.
Motor	 

\* are designed to resist wearing in abrasive water.

# 4" submersible pump

*Stainless steel ST series 5 - 8 - 12 - 20 G.P.M.*

# ST



### 3 WIRES + GROUND

H.P.	G.P.M.	Stages	Ph.	Volts	Part number	Model
1/2	5	13	1	115	425-0070	ST5-50-113P
	5	13	1	230	425-0080	ST5-50-233P
	8	9	1	115	425-0090	ST8-50-113P
	8	9	1	230	425-0100	ST8-50-233P
	12	8	1	115	425-0110	ST12-50-113P
	12	8	1	230	425-0120	ST12-50-233P
	18	6	1	115	425-0420	ST18-50-113P
	18	6	1	230	425-0430	ST18-50-233P
	20	4	1	115	425-0126	ST20-50-113P
	20	4	1	230	425-0128	ST20-50-233P
3/4	5	19	1	230	425-0130	ST5-75-233P
	8	13	1	230	425-0140	ST8-75-233P
	12	11	1	230	425-0150	ST12-75-233P
	20	9	1	230	425-0160	ST20-75-233P
1	5	22	1	230	425-0170	ST5-100-233P
	8	16	1	230	425-0180	ST8-100-233P
	12	14	1	230	425-0190	ST12-100-233P
	20	11	1	230	425-0200	ST20-100-233P
1 1/2	5	29	1	230	425-0210	ST5-150-233P
	5	29	3	575	425-0220	ST5-150-575P
	8	22	1	230	425-0230	ST8-150-233P
	8	22	3	575	425-0240	ST8-150-575P
	12	19	1	230	425-0250	ST12-150-233P
	12	19	3	575	425-0260	ST12-150-575P
	20	15	1	230	425-0270	ST20-150-233P
	20	15	3	575	425-0280	ST20-150-575P
2	8	28	1	230	425-0290	ST8-200-233P
	8	28	3	575	425-0300	ST8-200-575P
	12	21	1	230	425-0310	ST12-200-233P
	12	21	3	575	425-0320	ST12-200-575P
	20	19	1	230	425-0330	ST20-200-233P
	20	19	3	575	425-0340	ST20-200-575P
	12	28	1	230	425-0350	ST12-300-233P
	12	28	3	575	425-0360	ST12-300-575P
3	20	24	1	230	425-0370	ST20-300-233P
	20	24	3	575	425-0380	ST20-300-575P
	20	34	1	230	425-0390	ST20-500-233P
5	20	34	3	575	425-0400	ST20-500-575P

### 2 WIRES + GROUND

Part number	Model
425-0075	ST5-50-112P
425-0085	ST5-50-232P
425-0095	ST8-50-112P
425-0105	ST8-50-232P
425-0115	ST12-50-112P
425-0125	ST12-50-232P
425-0425	ST18-50-112P
425-0435	ST18-50-232P
425-0127	ST20-50-112P
425-0129	ST20-50-232P
425-0135	ST5-75-232P
425-0145	ST8-75-232P
425-0155	ST12-75-232P
425-0165	ST20-75-232P
425-0175	ST5-100-232P
425-0185	ST8-100-232P
425-0195	ST12-100-232P
425-0205	ST20-100-232P

† = available voltage 200 - 230 - 380 - 460 - 575 volts



1/3 HP MOTOR + PUMP  
AVAILABLE ON REQUEST

**Control box included with 3 wire motors**

**WARNING:** These pumps may develop very high pressure. A pressure valve must be installed on the tank to avoid possible danger of the tank bursting, causing property damage and/or personal injury or death.

The pump you trust.

# 4" submersible pump

*Stainless steel ST series 5 - 8 - 12 - 20 G.P.M.*

# ST



						3 WIRES + GROUND	
H.P.	G.P.M.	Stages	Ph.	Volts	Part number	Model	
1/2	5	13	1	115	531-0070	ST5-50-113	
	5	13	1	230	531-0080	ST5-50-233	
	8	9	1	115	531-0090	ST8-50-113	
	8	9	1	230	531-0100	ST8-50-233	
	12	8	1	115	531-0110	ST12-50-113	
	12	8	1	230	531-0120	ST12-50-233	
	18	6	1	115	531-0420	ST18-50-113	
	18	6	1	230	531-0430	ST18-50-233	
	20	4	1	115	531-0126	ST20-50-113	
	20	4	1	230	531-0128	ST20-50-233	
3/4	5	19	1	230	531-0130	ST5-75-233	
	8	13	1	230	531-0140	ST8-75-233	
	12	11	1	230	531-0150	ST12-75-233	
	20	9	1	230	531-0160	ST20-75-233	
1	5	22	1	230	531-0170	ST5-100-233	
	8	16	1	230	531-0180	ST8-100-233	
	12	14	1	230	531-0190	ST12-100-233	
	20	11	1	230	531-0200	ST20-100-233	
1 1/2	5	29	1	230	531-0210	ST5-150-233	
	5	29	3	575	531-0220	ST5-150-575	
	8	22	1	230	531-0230	ST8-150-233	
	8	22	3	575	531-0240	ST8-150-575	
	12	19	1	230	531-0250	ST12-150-233	
	12	19	3	575	531-0260	ST12-150-575	
	20	15	1	230	531-0270	ST20-150-233	
	20	15	3	575	531-0280	ST20-150-575	
2	8	28	1	230	531-0290	ST8-200-233	
	8	28	3	575	531-0300	ST8-200-575	
	12	21	1	230	531-0310	ST12-200-233	
	12	21	3	575	531-0320	ST12-200-575	
	20	19	1	230	531-0330	ST20-200-233	
	20	19	3	575	531-0340	ST20-200-575	
3	12	28	1	230	531-0350	ST12-300-233	
	12	28	3	575	531-0360	ST12-300-575	
	20	24	1	230	531-0370	ST20-300-233	
	20	24	3	575	531-0380	ST20-300-575	
5	20	34	1	230	531-0390	ST20-500-233	
	20	34	3	575	531-0400	ST20-500-575	

2 WIRES + GROUND	
Part number	Model
531-0075	ST5-50-112
531-0085	ST5-50-232
531-0095	ST8-50-112
531-0105	ST8-50-232
531-0115	ST12-50-112
531-0125	ST12-50-232
531-0425	ST18-50-112
531-0435	ST18-50-232
531-0127	ST20-50-112
531-0129	ST20-50-232
531-0135	ST5-75-232
531-0145	ST8-75-232
531-0155	ST12-75-232
531-0165	ST20-75-232
531-0175	ST5-100-232
531-0185	ST8-100-232
531-0195	ST12-100-232
531-0205	ST20-100-232



1/3 HP MOTOR + PUMP  
AVAILABLE ON REQUEST

**Control box  
included  
with 3 wire  
motors**

**WARNING:**

These pumps may develop very high pressure. A pressure valve must be installed on the tank to avoid possible danger of the tank bursting, causing property damage and/or personal injury or death.

# Replacement parts / Submersible pump FP series



ROTATING KIT			
H.P.	G.P.M.	St.	Part #
1/2	5	13	542-0412
	8	9	542-0462
	12	8	542-0522
	18	6	542-0562
3/4	20	4	542-0572
	5	19	542-0422
	8	13	542-0472
	12	11	542-0532
1	20	9	542-0582
	5	22	542-0432
	8	16	542-0482
	12	14	542-0542
1 1/2	20	11	542-0592
	5	29	542-0442
	8	22	542-0492
	12	19	542-0552
2	20	15	542-0602
	8	28	542-0502
	12	21	542-0558
	20	19	542-0608
3	12	28	542-0559
	20	24	542-0612
5	20	34	542-0632

REPLACEMENT PARTS "ST" OR "SL" SERIES	
Part #	Description
564-0005	S/S Sleeve
564-0018	Pump head - "SL" series
564-0020	Sleeve bearing assembly
564-0021	1 1/4" x 1" S/S check valve
564-0022	1 1/4" x 1 1/4" S/S check valve
564-0037	Check valve - "SL" series
564-0044	Pump head - "ST" series
564-0045	Motor bracket - "ST" series
564-0048	Screen - "ST" series
564-0055	Screw shaft
564-0075	5/16" - 24 S/S nut
564-0080	5/16" S/S lock washer
564-0085	Lock
564-0093	5 - 8 - 12 G.P.M. S/S disk
564-0094	20 G.P.M. S/S disk
564-0100	5 - 8 - 12 G.P.M. diffuser
564-0105	20 G.P.M. diffuser
564-0102	.650" x 1" S/S washer
564-0110	5 G.P.M. impeller
564-0115	8 G.P.M. impeller
564-0120	12 G.P.M. impeller
564-0125	20 G.P.M. impeller
569-1065	8-32 x 1/4" S/S cable guard screw

## 4" SUBMERSIBLE PUMP FP SERIES / 30-50-80 G.P.M.

### 4" PUMP END

H.P.	Part number	Model
1	545-0010	4 FP-35-10
1 1/2	545-0050	4 FP-35-15
	545-0090	4 FP-50-15
2	545-0130	4 FP-35-20
	545-0170	4 FP-50-20
	545-0190	4 FP-80-20
3	545-0210	4 FP-35-30
	545-0250	4 FP-50-30
	545-0290	4 FP-80-30
5	545-0330	4 FP-35-50
	545-0370	4 FP-50-50
	545-0410	4 FP-80-50
7 1/2	545-0450	4 FP-35-75
	545-0490	4 FP-50-75
	545-0530	4 FP-80-75
10	545-0570	4 FP-35-100
	545-0610	4 FP-50-100
	545-0650	4 FP-80-100

### ROTATING KIT

Part Number "4 FP"	Part Number "4 FPP"
542-2012	542-2512
542-2022	542-2522
542-2102	542-2602
542-2032	542-2532
542-2112	542-2612
542-2117	542-2617
542-2042	542-2542
542-2122	542-2622
542-2202	542-2702
542-2052	542-2552
542-2132	542-2632
542-2212	542-2712
542-2062	542-2562
542-2142	542-2642
542-2222	542-2722
542-2072	542-2572
542-2152	542-2652
542-2232	542-2732



# Performance chart

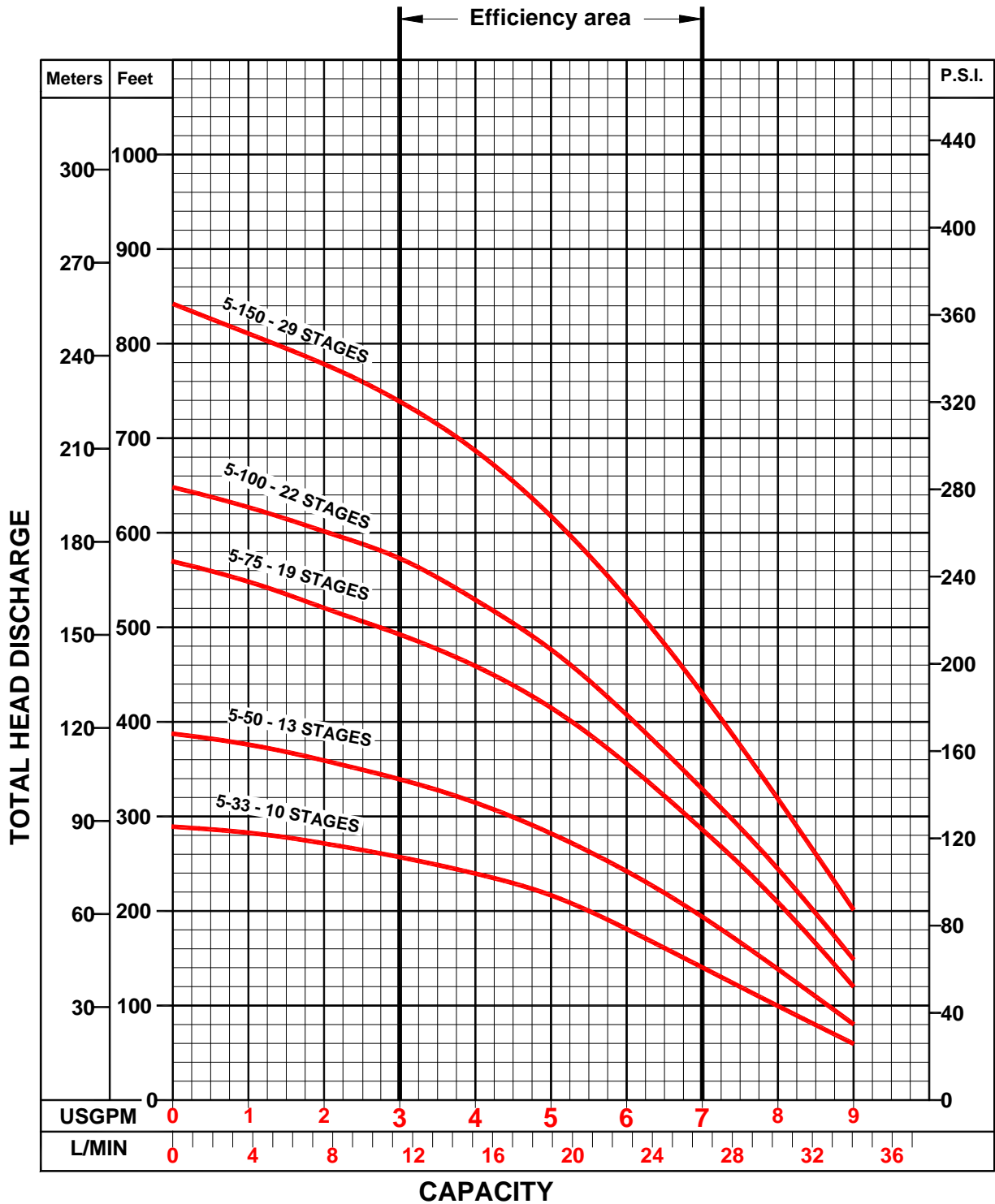
## ST & SL Series - 5 GPM

MODEL	MOTOR H.P.	WATER DEPTH IN FEET CAPACITY IN U.S. GALLONS / HOUR																	Shut off head	
		P.S.I.	20	40	60	80	100	125	150	175	200	225	250	275	300	350	400	450	FEET	P.S.I.
5-50 13 Stages	1/2	30	530	510	490	470	450	425	<b>395</b>	<b>365</b>	<b>325</b>	<b>285</b>	<b>235</b>	175					<b>388</b>	<b>168</b>
	1/2	40	510	490	470	450	425	<b>400</b>	<b>365</b>	<b>330</b>	<b>285</b>	<b>240</b>	<b>180</b>	95					<b>388</b>	<b>168</b>
	1/2	50	485	465	445	425	<b>400</b>	<b>370</b>	<b>335</b>	<b>290</b>	<b>245</b>	<b>185</b>	100						<b>388</b>	<b>168</b>
	1/2	60	460	440	420	<b>400</b>	<b>370</b>	<b>335</b>	<b>295</b>	<b>250</b>	<b>190</b>	110							<b>388</b>	<b>168</b>
	1/2	70	430	415	<b>390</b>	<b>360</b>	<b>330</b>	<b>290</b>	<b>250</b>	<b>195</b>	120								<b>388</b>	<b>168</b>
5-75 19 Stages	3/4	30	560	545	535	520	510	490	475	455	435	<b>415</b>	<b>395</b>	<b>370</b>	<b>350</b>	<b>295</b>	<b>225</b>	135	<b>564</b>	<b>244</b>
	3/4	40	545	535	520	505	490	475	455	435	<b>415</b>	<b>395</b>	<b>375</b>	<b>350</b>	<b>325</b>	<b>265</b>	<b>185</b>		<b>564</b>	<b>244</b>
	3/4	50	530	515	505	490	475	455	440	<b>420</b>	<b>400</b>	<b>375</b>	<b>350</b>	<b>325</b>	<b>295</b>	<b>230</b>	140		<b>564</b>	<b>244</b>
	3/4	60	515	500	490	475	460	440	<b>420</b>	<b>400</b>	<b>375</b>	<b>355</b>	<b>330</b>	<b>300</b>	<b>270</b>	<b>195</b>			<b>564</b>	<b>244</b>
	3/4	70	500	485	470	460	440	<b>420</b>	<b>400</b>	<b>380</b>	<b>360</b>	<b>330</b>	<b>300</b>	<b>275</b>	<b>240</b>	120			<b>564</b>	<b>244</b>

MODEL	MOTOR H.P.	WATER DEPTH IN FEET CAPACITY IN U.S. GALLONS / HOUR																	Shut off head	
		P.S.I.	125	150	175	200	225	250	275	300	350	400	450	500	550	600	650	700	FEET	P.S.I.
5-100 22 Stages	1	30	515	495	480	460	445	430	<b>410</b>	<b>395</b>	<b>355</b>	<b>310</b>	<b>255</b>	<b>185</b>	85				<b>647</b>	<b>280</b>
	1	40	495	480	465	445	430	<b>415</b>	<b>395</b>	<b>375</b>	<b>335</b>	<b>285</b>	<b>230</b>	145					<b>647</b>	<b>280</b>
	1	50	480	465	450	430	<b>415</b>	<b>395</b>	<b>380</b>	<b>360</b>	<b>315</b>	<b>260</b>	<b>195</b>	90					<b>647</b>	<b>280</b>
	1	60	465	450	430	<b>415</b>	<b>400</b>	<b>380</b>	<b>360</b>	<b>340</b>	<b>290</b>	<b>235</b>	150						<b>647</b>	<b>280</b>
	1	70	450	435	420	<b>400</b>	<b>370</b>	<b>350</b>	<b>330</b>	<b>315</b>	<b>260</b>	<b>195</b>	100						<b>647</b>	<b>280</b>
5-150 29 Stages	1½	30	545	530	520	510	495	480	470	455	430	<b>400</b>	<b>370</b>	<b>335</b>	<b>300</b>	<b>260</b>	<b>205</b>	135	<b>835</b>	<b>361</b>
	1½	40	535	520	510	495	485	470	455	445	<b>415</b>	<b>385</b>	<b>355</b>	<b>320</b>	<b>280</b>	<b>235</b>	175		<b>835</b>	<b>361</b>
	1½	50	520	510	495	485	470	460	445	430	<b>400</b>	<b>370</b>	<b>335</b>	<b>305</b>	<b>260</b>	<b>210</b>	140		<b>835</b>	<b>361</b>
	1½	60	510	500	485	470	460	445	430	<b>420</b>	<b>390</b>	<b>355</b>	<b>320</b>	<b>285</b>	<b>240</b>	<b>180</b>			<b>835</b>	<b>361</b>
	1½	70	495	480	470	450	440	430	<b>420</b>	<b>405</b>	<b>375</b>	<b>340</b>	<b>310</b>	<b>260</b>	<b>215</b>	<b>150</b>			<b>835</b>	<b>361</b>

Numbers in **italic-bold** indicate the maximum efficiency zone  
 To convert **feet** in **meters** multiply by 0.3048  
 To convert **U.S. gallon** in **Liters** multiply by 3.785

# Pumping curves ST & SL series - 5 GPM





# Performance chart ST & SL series - 8 GPM

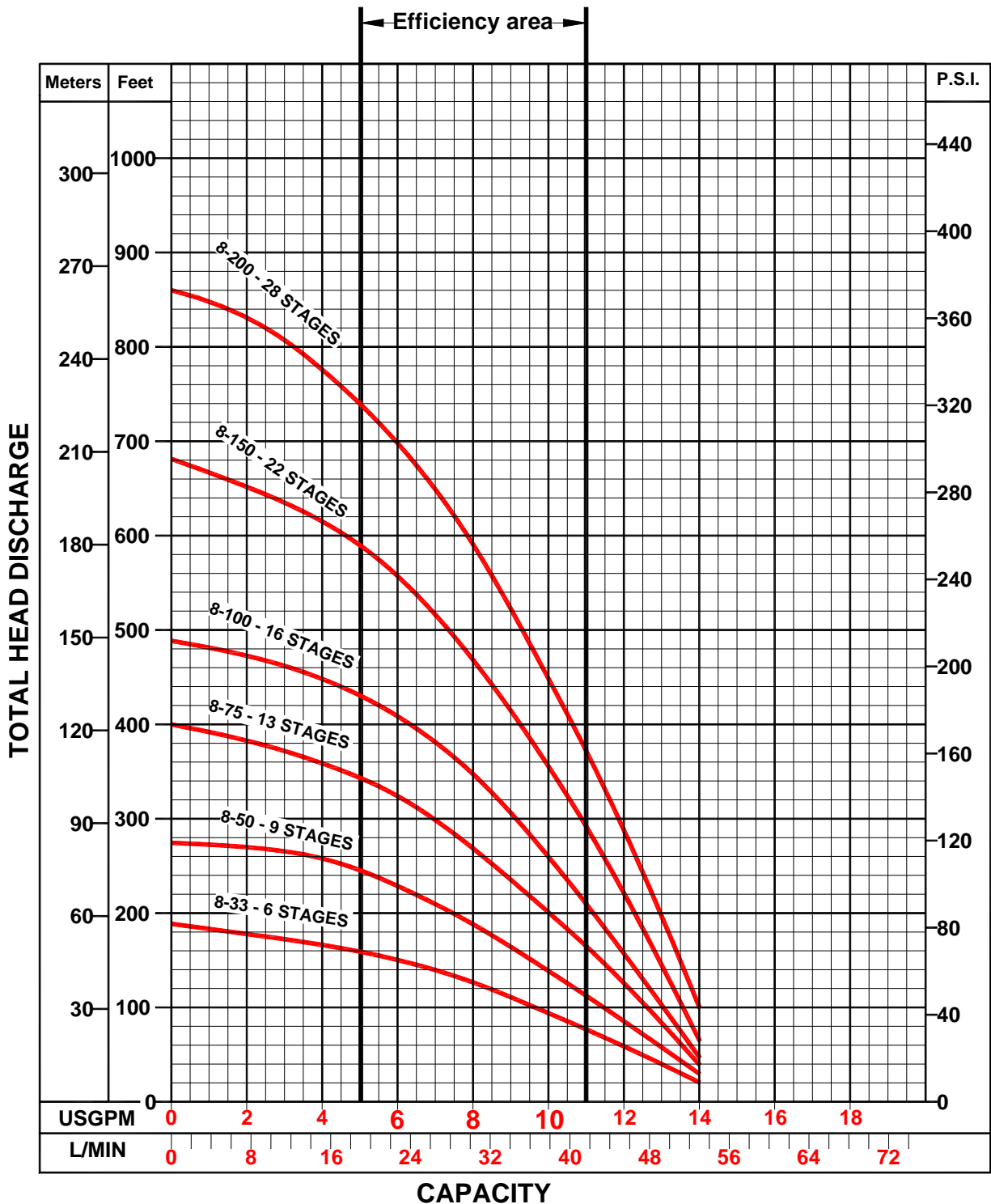
MODEL	MOTOR H.P.	WATER DEPTH IN FEET CAPACITY IN U.S. GALLONS / HOUR																Shut off head			
		P.S.I.	20	40	60	80	100	125	150	175	200	225	250	275	300	350	400	450	FEET	P.S.I.	
8-50 9 Stages	1/2	30	725	680	<b>640</b>	<b>590</b>	<b>545</b>	<b>475</b>	<b>395</b>	<b>290</b>	120									277	120
	1/2	40	675	<b>630</b>	<b>585</b>	<b>535</b>	<b>480</b>	<b>400</b>	<b>300</b>	140										277	120
	1/2	50	<b>625</b>	<b>580</b>	<b>530</b>	<b>465</b>	<b>410</b>	<b>310</b>	160											277	120
	1/2	60	<b>570</b>	<b>520</b>	<b>465</b>	<b>400</b>	<b>320</b>	180												277	120
	1/2	70	<b>500</b>	<b>450</b>	<b>390</b>	<b>305</b>	180													277	120
8-75 13 Stages	3/4	30	775	750	725	690	665	<b>625</b>	<b>580</b>	<b>535</b>	<b>490</b>	<b>440</b>	<b>385</b>	<b>315</b>	225					400	173
	3/4	40	745	715	685	<b>655</b>	<b>625</b>	<b>585</b>	<b>540</b>	<b>490</b>	<b>440</b>	<b>385</b>	<b>320</b>	230	100					400	173
	3/4	50	710	685	<b>650</b>	<b>620</b>	<b>590</b>	<b>545</b>	<b>495</b>	<b>445</b>	<b>390</b>	<b>325</b>	240	120						400	173
	3/4	60	680	<b>650</b>	<b>615</b>	<b>580</b>	<b>545</b>	<b>500</b>	<b>450</b>	<b>400</b>	<b>330</b>	250	130							400	173
	3/4	70	<b>630</b>	<b>600</b>	<b>570</b>	<b>535</b>	<b>495</b>	<b>450</b>	<b>390</b>	<b>330</b>	235									400	173
8-100 16 Stages	1	30	805	785	765	740	720	685	<b>655</b>	<b>625</b>	<b>590</b>	<b>550</b>	<b>510</b>	<b>470</b>	<b>425</b>	<b>320</b>	160			492	213
	1	40	780	760	740	710	690	<b>660</b>	<b>625</b>	<b>590</b>	<b>550</b>	<b>515</b>	<b>470</b>	<b>425</b>	<b>375</b>	250				492	213
	1	50	755	735	710	685	<b>660</b>	<b>630</b>	<b>595</b>	<b>555</b>	<b>515</b>	<b>475</b>	<b>430</b>	<b>385</b>	<b>325</b>	170				492	213
	1	60	730	705	685	<b>655</b>	<b>630</b>	<b>600</b>	<b>560</b>	<b>520</b>	<b>480</b>	<b>435</b>	<b>385</b>	<b>330</b>	265	50				492	213
	1	70	690	675	<b>650</b>	<b>625</b>	<b>600</b>	<b>560</b>	<b>530</b>	<b>500</b>	<b>460</b>	<b>405</b>	<b>360</b>	285	180					492	213

MODEL	MOTOR H.P.	WATER DEPTH IN FEET CAPACITY IN U.S. GALLONS / HOUR																Shut off head			
		P.S.I.	125	150	175	200	225	250	275	300	350	400	450	500	550	600	650	700	FEET	P.S.I.	
8-150 22 Stages	1 1/2	30	750	730	705	680	<b>660</b>	<b>635</b>	<b>610</b>	<b>585</b>	<b>530</b>	<b>470</b>	<b>410</b>	<b>335</b>	230	60				677	293
	1 1/2	40	730	710	685	<b>660</b>	<b>640</b>	<b>610</b>	<b>590</b>	<b>560</b>	<b>505</b>	<b>445</b>	<b>375</b>	290	165					677	293
	1 1/2	50	710	685	665	<b>640</b>	<b>615</b>	<b>590</b>	<b>565</b>	<b>535</b>	<b>475</b>	<b>410</b>	<b>340</b>	240	80					677	293
	1 1/2	60	690	665	<b>640</b>	<b>615</b>	<b>590</b>	<b>565</b>	<b>540</b>	<b>510</b>	<b>450</b>	<b>385</b>	<b>300</b>	180						677	293
	1 1/2	70	660	<b>645</b>	<b>620</b>	<b>595</b>	<b>570</b>	<b>545</b>	<b>515</b>	<b>485</b>	<b>430</b>	<b>355</b>	<b>255</b>	90						677	293
8-200 28 Stages	2	30	785	770	755	740	720	705	685	665	<b>630</b>	<b>590</b>	<b>545</b>	<b>500</b>	<b>450</b>	<b>400</b>	<b>340</b>	265		862	373
	2	40	770	755	740	720	705	685	670	<b>650</b>	<b>610</b>	<b>570</b>	<b>525</b>	<b>480</b>	<b>430</b>	<b>375</b>	<b>310</b>	220		862	373
	2	50	760	740	725	705	690	670	<b>650</b>	<b>630</b>	<b>590</b>	<b>550</b>	<b>505</b>	<b>455</b>	<b>405</b>	<b>345</b>	270	170		862	373
	2	60	740	725	710	690	670	<b>650</b>	<b>630</b>	<b>610</b>	<b>570</b>	<b>530</b>	<b>480</b>	<b>430</b>	<b>380</b>	<b>310</b>	230			862	373
	2	70	720	705	685	675	650	<b>630</b>	<b>615</b>	<b>590</b>	<b>550</b>	<b>510</b>	<b>465</b>	<b>405</b>	<b>345</b>	<b>270</b>	170			862	373

Numbers in **italic-bold** indicate the maximum efficiency zone  
 To convert **feet** in **meters** multiply by 0.3048  
 To convert **U.S. gallon** in **Liters** multiply by 3.785



# Pumping curves ST & SL series - 8 GPM







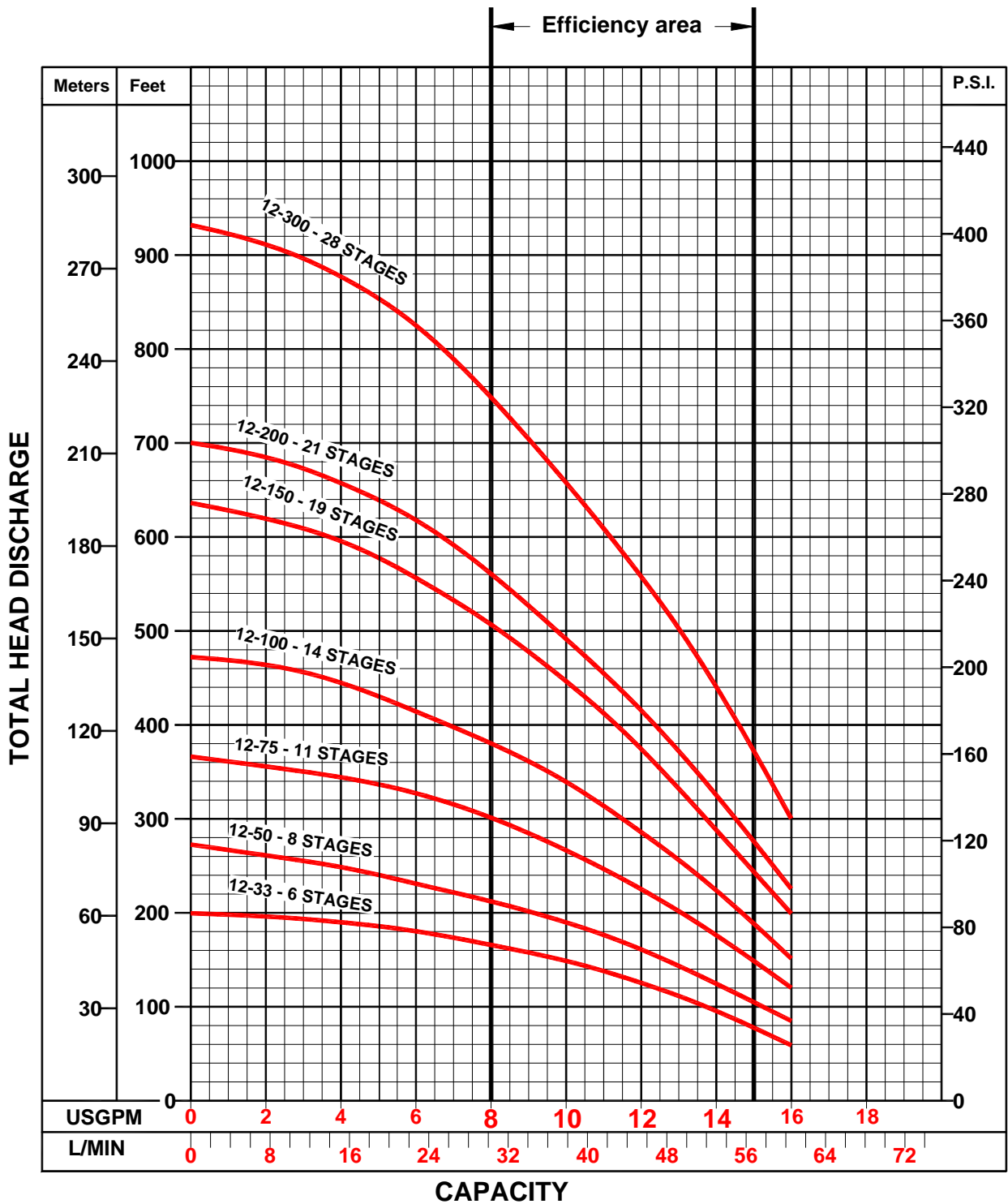
# Performance chart ST & SL series - 12 GPM

MODEL	MOTOR H.P.	WATER DEPTH IN FEET CAPACITY IN U.S. GALLONS / HOUR																Shut off head		
		P.S.I.	20	40	60	80	100	125	150	175	200	225	250	275	300	350	400	450	FEET	P.S.I.
12-50 8 Stages	1/2	30	950	<b>895</b>	<b>830</b>	<b>770</b>	<b>695</b>	<b>585</b>	440	270									265	115
	1/2	40	<b>885</b>	<b>825</b>	<b>755</b>	<b>680</b>	<b>590</b>	455	280										265	115
	1/2	50	<b>810</b>	<b>745</b>	<b>665</b>	<b>580</b>	465	300											265	115
	1/2	60	<b>730</b>	<b>655</b>	460	450	315												265	115
	1/2	70	<b>635</b>	<b>540</b>	420	300													265	115
12-75 11 Stages	3/4	30	1000	970	940	<b>900</b>	<b>865</b>	<b>810</b>	<b>745</b>	<b>670</b>	<b>585</b>	<b>490</b>	390	250					365	158
	3/4	40	965	930	<b>895</b>	<b>855</b>	<b>815</b>	<b>750</b>	<b>670</b>	<b>590</b>	<b>500</b>	395	265						365	158
	3/4	50	925	<b>890</b>	<b>850</b>	<b>810</b>	<b>755</b>	<b>680</b>	<b>595</b>	<b>505</b>	400	275							365	158
	3/4	60	<b>880</b>	<b>845</b>	<b>800</b>	<b>750</b>	<b>685</b>	<b>605</b>	<b>510</b>	410	290								365	158
	3/4	70	<b>820</b>	<b>780</b>	<b>735</b>	<b>680</b>	<b>620</b>	<b>540</b>	<b>445</b>	330									365	158
12-100 14 Stages	1	30	1035	1010	990	965	940	<b>900</b>	<b>860</b>	<b>820</b>	<b>770</b>	<b>710</b>	<b>650</b>	<b>590</b>	<b>520</b>	350			467	202
	1	40	1010	985	960	935	<b>905</b>	<b>865</b>	<b>820</b>	<b>770</b>	<b>715</b>	<b>660</b>	<b>590</b>	<b>520</b>	440	245			467	202
	1	50	980	960	930	<b>900</b>	<b>870</b>	<b>825</b>	<b>775</b>	<b>720</b>	<b>660</b>	<b>600</b>	<b>530</b>	450	360				467	202
	1	60	955	925	<b>895</b>	<b>860</b>	<b>830</b>	<b>780</b>	<b>725</b>	<b>670</b>	<b>600</b>	<b>535</b>	460	370	260				467	202
	1	70	910	<b>875</b>	<b>845</b>	<b>810</b>	<b>775</b>	<b>720</b>	<b>665</b>	<b>610</b>	<b>540</b>	450	365	285					467	202

MODEL	MOTOR H.P.	WATER DEPTH IN FEET CAPACITY IN U.S. GALLONS / HOUR																Shut off head		
		P.S.I.	125	150	175	200	225	250	275	300	350	400	450	500	550	600	650	700	FEET	P.S.I.
12-150 19 Stages	1 1/2	30	970	940	920	<b>890</b>	<b>855</b>	<b>820</b>	<b>780</b>	<b>735</b>	<b>650</b>	<b>555</b>	450	335	160				632	274
	1 1/2	40	945	920	<b>890</b>	<b>860</b>	<b>820</b>	<b>780</b>	<b>740</b>	<b>695</b>	<b>605</b>	<b>510</b>	400	265					632	274
	1 1/2	50	920	<b>890</b>	<b>860</b>	<b>820</b>	<b>780</b>	<b>740</b>	<b>700</b>	<b>655</b>	<b>560</b>	460	350	175					632	274
	1 1/2	60	<b>890</b>	<b>860</b>	<b>825</b>	<b>785</b>	<b>745</b>	<b>700</b>	<b>660</b>	<b>610</b>	<b>520</b>	410	280						632	274
	1 1/2	70	<b>840</b>	<b>810</b>	<b>780</b>	<b>745</b>	<b>700</b>	<b>660</b>	<b>625</b>	<b>570</b>	<b>480</b>	350	180						632	274
12-200 21 Stages	2	30	990	965	940	915	<b>890</b>	<b>860</b>	<b>830</b>	<b>795</b>	<b>720</b>	<b>640</b>	<b>550</b>	460	360	220			698	302
	2	40	965	940	920	<b>890</b>	<b>860</b>	<b>830</b>	<b>800</b>	<b>760</b>	<b>680</b>	<b>600</b>	<b>510</b>	420	305				698	302
	2	50	945	920	<b>890</b>	<b>865</b>	<b>835</b>	<b>800</b>	<b>765</b>	<b>725</b>	<b>645</b>	<b>560</b>	470	370	230				698	302
	2	60	920	<b>895</b>	<b>870</b>	<b>835</b>	<b>805</b>	<b>770</b>	<b>730</b>	<b>690</b>	<b>610</b>	<b>520</b>	425	310					698	302
	2	70	890	<b>855</b>	<b>825</b>	<b>795</b>	<b>760</b>	<b>725</b>	<b>690</b>	<b>650</b>	<b>570</b>	<b>480</b>	375	240					698	302
12-300 28 Stages	3	30	1030	1015	1000	980	965	950	930	910	<b>865</b>	<b>820</b>	<b>760</b>	<b>705</b>	<b>645</b>	<b>580</b>	<b>520</b>	450	930	403
	3	40	1015	1000	985	965	950	930	910	<b>890</b>	<b>840</b>	<b>790</b>	<b>735</b>	<b>675</b>	<b>620</b>	<b>550</b>	<b>485</b>	410	930	403
	3	50	1000	985	970	950	930	910	<b>890</b>	<b>870</b>	<b>820</b>	<b>765</b>	<b>710</b>	<b>650</b>	<b>590</b>	<b>520</b>	450	370	930	403
	3	60	985	970	950	930	910	<b>890</b>	<b>870</b>	<b>850</b>	<b>795</b>	<b>740</b>	<b>680</b>	<b>620</b>	<b>560</b>	<b>490</b>	520	330	930	403
	3	70	970	950	930	910	890	<b>870</b>	<b>850</b>	<b>815</b>	<b>770</b>	<b>720</b>	<b>660</b>	<b>600</b>	<b>525</b>	<b>465</b>	390	285	930	403

Numbers in *italic-bold* indicate the maximum efficiency zone  
 To convert feet in meters multiply by 0.3048  
 To convert U.S. gallon in Liters multiply by 3.785

# Pumping curves ST & SL series - 12 GPM





# Performance chart ST & SL series - 20 GPM

MODEL	MOTOR H.P.	WATER DEPTH IN FEET CAPACITY IN U.S. GALLONS / HOUR															Shut off head		
		P.S.I.	20	40	60	80	100	125	150	175	200	225	250	275	300	350	FEET	P.S.I.	
20-75 9 Stages	3/4	30	1605	<b>1500</b>	<b>1390</b>	<b>1260</b>	<b>1180</b>	<b>740</b>	320									234	101
	3/4	40	<b>1485</b>	<b>1370</b>	<b>1220</b>	<b>1040</b>	<b>760</b>	360										234	101
	3/4	50	<b>1350</b>	<b>1210</b>	<b>1010</b>	<b>710</b>	380											234	101
	3/4	60	<b>1180</b>	<b>970</b>	<b>680</b>	330												234	101
	3/4	70	<b>960</b>	<b>720</b>	330													234	101
20-100 11 Stages	1	30	1710	1620	1530	<b>1435</b>	<b>1330</b>	<b>1190</b>	<b>970</b>	<b>660</b>	300							285	123
	1	40	1610	1510	<b>1410</b>	<b>1315</b>	<b>1200</b>	<b>990</b>	<b>680</b>	320								285	123
	1	50	<b>1500</b>	<b>1405</b>	<b>1300</b>	<b>1180</b>	<b>1010</b>	<b>710</b>	350									285	123
	1	60	<b>1390</b>	<b>1290</b>	<b>1160</b>	<b>980</b>	<b>730</b>	380										285	123
	1	70	<b>1260</b>	<b>1110</b>	<b>960</b>	<b>780</b>	480											285	123

MODEL	MOTOR H.P.	WATER DEPTH IN FEET CAPACITY IN U.S. GALLONS / HOUR															Shut off head		
		P.S.I.	40	60	80	100	125	150	175	200	225	250	275	300	350	400	FEET	P.S.I.	
20-150 15 Stages	1 1/2	30	1730	1670	1610	1545	<b>1460</b>	<b>1360</b>	<b>1255</b>	<b>1120</b>	<b>960</b>	<b>740</b>	490					386	167
	1 1/2	40	1660	1600	1535	<b>1460</b>	<b>1370</b>	<b>1260</b>	<b>1130</b>	<b>970</b>	<b>750</b>	510						386	167
	1 1/2	50	1585	1525	<b>1450</b>	<b>1370</b>	<b>1270</b>	<b>1140</b>	<b>980</b>	<b>770</b>	530	260						386	167
	1 1/2	60	1510	<b>1440</b>	<b>1360</b>	<b>1280</b>	<b>1150</b>	<b>1000</b>	<b>790</b>	550	280							386	167
	1 1/2	70	<b>1410</b>	<b>1350</b>	<b>1260</b>	<b>1140</b>	<b>1005</b>	<b>860</b>	720	390								386	167
20-200 19 Stages	2	30	1800	1750	1695	1640	1570	<b>1495</b>	<b>1415</b>	<b>1330</b>	<b>1240</b>	<b>1140</b>	<b>1030</b>	<b>910</b>	550			483	209
	2	40	1735	1685	1630	1570	<b>1500</b>	<b>1420</b>	<b>1335</b>	<b>1250</b>	<b>1145</b>	<b>1040</b>	<b>920</b>	<b>750</b>	360			483	209
	2	50	1675	1620	1560	<b>1500</b>	<b>1425</b>	<b>1340</b>	<b>1255</b>	<b>1150</b>	<b>1050</b>	<b>930</b>	<b>770</b>	575				483	209
	2	60	1610	1555	<b>1500</b>	<b>1430</b>	<b>1350</b>	<b>1260</b>	<b>1165</b>	<b>1060</b>	<b>940</b>	<b>780</b>	595	400				483	209
	2	70	1550	<b>1500</b>	<b>1440</b>	<b>1370</b>	<b>1270</b>	<b>1190</b>	<b>1080</b>	<b>960</b>	<b>780</b>	610	480					483	209

MODEL	MOTOR H.P.	WATER DEPTH IN FEET CAPACITY IN U.S. GALLONS / HOUR															Shut off head		
		P.S.I.	175	200	225	250	275	300	350	400	450	500	550	600	650	700	FEET	P.S.I.	
20-300 24 Stages	3	30	1550	<b>1495</b>	<b>1440</b>	<b>1380</b>	<b>1315</b>	<b>1250</b>	<b>1100</b>	<b>885</b>	580	260						606	262
	3	40	<b>1500</b>	<b>1440</b>	<b>1380</b>	<b>1320</b>	<b>1255</b>	<b>1185</b>	<b>1005</b>	<b>745</b>	430							606	262
	3	50	<b>1445</b>	<b>1385</b>	<b>1320</b>	<b>1260</b>	<b>1190</b>	<b>1110</b>	<b>900</b>	<b>600</b>	285							606	262
	3	60	<b>1390</b>	<b>1330</b>	<b>1265</b>	<b>1200</b>	<b>1120</b>	<b>1020</b>	<b>770</b>	460								606	262
	3	70	<b>1340</b>	<b>1260</b>	<b>1170</b>	<b>1110</b>	<b>1020</b>	<b>900</b>	630									606	262
20-500 34 Stages	5	30	1750	1715	1680	1640	1605	1565	<b>1485</b>	<b>1400</b>	<b>1310</b>	<b>1205</b>	<b>1090</b>	<b>950</b>	<b>770</b>	540		873	378
	5	40	1715	1680	1645	1610	1570	1530	<b>1445</b>	<b>1360</b>	<b>1260</b>	<b>1150</b>	<b>1030</b>	<b>870</b>	<b>660</b>	420		873	378
	5	50	1680	1645	1610	1570	1535	<b>1490</b>	<b>1405</b>	<b>1310</b>	<b>1215</b>	<b>1095</b>	<b>960</b>	<b>780</b>	555	300		873	378
	5	60	1650	1615	1575	1540	<b>1500</b>	<b>1435</b>	<b>1365</b>	<b>1270</b>	<b>1160</b>	<b>1040</b>	<b>890</b>	685	440			873	378
	5	70	1600	1560	<b>1500</b>	<b>1470</b>	<b>1440</b>	<b>1380</b>	<b>1290</b>	<b>1200</b>	<b>1080</b>	<b>950</b>	<b>790</b>	580	330			873	378

Numbers in **italic-bold** indicate the maximum efficiency zone  
 To convert **feet** in **meters** multiply by 0.3048  
 To convert **U.S. gallon** in **Liters** multiply by 3.785

# Pumping curves ST & SL series - 20 GPM

