



TECHNICAL BROCHURE

B33-80LS R1

FEATURES

Powered for Continuous Operation: All ratings are within the working limits of the motor as recommended by the motor manufacturer. Pump can be operated continuously without damage to the motor.

Field Serviceable: Units have left hand threads and are field serviceable with common tools and readily available repair parts.

Sand Handling Design: Our face clearance, floating impeller stack has proven itself for over 40 years as a superior sand handling, durable pump design.

FDA Compliant Non-Metallic Parts: Impellers, diffusers and bearing spiders are constructed of glass filled engineered composites. They are corrosion resistant and non-toxic.

Discharge Head: Cast lead-free silicon bronze for strength and durability. Two cast-in safety line loops for installer convenience.

External check valve required. Order separately.

Motor Adapter: Cast lead-free silicon bronze for rigid, accurate alignment of pump and motor. Easy access to motor mounting nuts using standard open end wrench.

Stainless Steel Casing: Polished stainless steel is strong and corrosion resistant.

Hex Shaft Design: Six sided shafts for positive impeller drive.

Engineered Polymer Bearings: The proprietary, engineered polymer bearing material is strong and resistant to abrasion and wear. The upper bearing is mounted in a durable engineered composite bearing spider for excellent abrasion resistance.

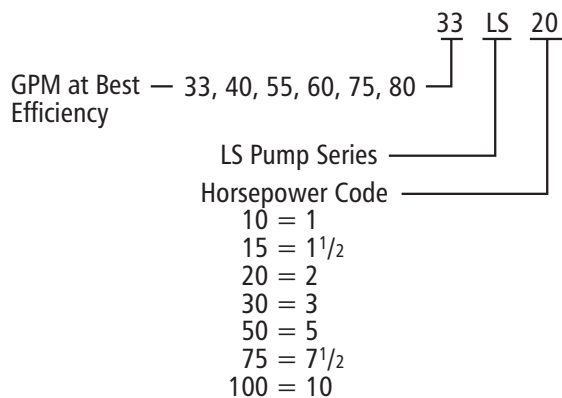
33LS, 40LS, 55LS, 60LS, 75LS & 80LS

33-80 GPM, 1 - 10 HP, 60 HZ, SUBMERSIBLE PUMPS

WATER END DATA

Series	Model	Required H.P.	Stages	Water End	
				Length (in)	Wt (lbs)
33LS	33LS10	1	6	14.2	8
	33LS15	1.5	8	16.6	9
	33LS20	2	10	19.1	10
	33LS30	3	14	24	13
	33LS50	5	22	35.2	19
	33LS75	7.5	34	50.6	27
	33LS100	10	44	62.8	33
40LS	40LS15	1.5	5	12.9	8
	40LS20	2	6	14.2	8
	40LS30	3	8	16.6	9
	40LS50	5	14	24.0	13
	40LS75	7.5	21	34.0	18
55LS	55LS15	1.5	5	17.1	10
	55LS20	2	7	21.2	12
	55LS30	3	9	25.3	15
	55LS50	5	15	39.1	22
	55LS75	7.5	22	54.1	32
	55LS100	10	29	68.6	39
	60LS	60LS15	1.5	4	15.0
60LS20		2	5	17.1	9
60LS30		3	7	21.2	10
60LS50		5	11	30.9	14
60LS75		7.5	17	43.2	19
75LS	75LS30	3	7	24.1	14
	75LS50	5	11	34.8	19
	75LS75	7.5	16	48.2	27
	75LS100	10	21	63.8	35
80LS	80LS30	3	5	21.4	10
	80LS50	5	9	29.4	13
	80LS75	7.5	14	42.8	24

NOMENCLATURE - Sold as Water Ends Only



SPECIFICATIONS

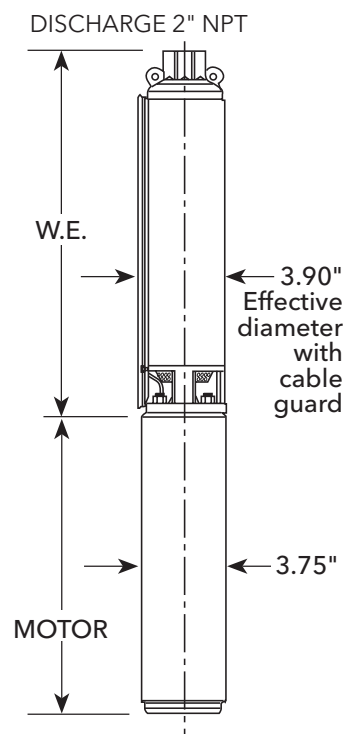
Model	Flow Range US GPM	Horsepower Range	Best Efficiency US GPM	Discharge Connection	Minimum Well Size	Rotation®
33LS	10 - 50	1 - 10	33	2"	4"	CCW
40LS	20 - 65	1½ - 7½	40	2"	4"	CCW
55LS	20 - 80	1½ - 10	55	2"	4"	CCW
60LS	40 - 80	1½ - 7½	60	2"	4"	CCW
75LS	40 - 100	3 - 10	75	2"	4"	CCW
80LS	50 - 120	3 - 7½	80	2"	4"	CCW

① Rotation is counterclockwise when observed from pump discharge end.

"LS" SERIES MATERIALS OF CONSTRUCTION

Part Name	Material
Discharge Head	Silicon Bronze
Adapter Ring	Glass Filled
Bearing Spider	Engineered Composite
Upthrust Washer	AISI 304 SS, Powder Metal
Bearing	Proprietary Engineered Polymer
Shaft Retaining Ring	AISI 301 SS
Diffuser	Lexan*
Impeller	Noryl*
Bowl	AISI 304 SS
Intermediate Sleeve*	AISI 304 SS, Powder Metal
Intermediate Shaft Coupling*	AISI 304 SS, Powder Metal
Intermediate Bearing Spider*	Glass Filled Engineered Composite
Intermediate Bearing Spider*	AISI 303 SS
Shim	AISI 304 SS
Screws - Cable Guard	AISI 304 SS
Motor Adapter	Silicon Bronze
Casing	AISI 304 SS
Shaft	AISI 304 SS
Coupling	AISI 304 SS, Powder Metal
Cable Guard	AISI 304 SS
Suction Screen	Engineered Composite

*See repair parts for where used.



CENTRIPRO 4" SINGLE-PHASE MOTORS

Order No.	Type	HP	Volts	Length in. (mm)	Weight lb. (kg.)
M10422	2-wire	1	230	13.3 (337)	24.5 (11.1)
M15422		PSC		1.5	14.9 (378)
M10412	3-wire	1	230	11.7 (297)	23.1 (10.5)
M15412		1.5		13.6 (345)	27.4 (12.4)
M20412		2		15.1 (383)	31.0 (14.1)
M30412		3		18.3 (466)	40.0 (18.1)
M50412		5		27.7 (703)	70.0 (31.8)

NEMA MOTOR

- Corrosion resistant stainless steel construction.
- Built-in surge arrestor is provided on single phase motors through 5 HP.
- Stainless steel splined shaft.
- Hermetically sealed windings.
- Replaceable motor lead assembly.
- NEMA mounting dimensions
- Control box is required with 3 wire single phase units.
- Three phase motors require a magnetic starter with Class 10 overload protection.

CENTRIPRO 4" THREE-PHASE MOTORS

Order No.	HP	Volts	Length in. (mm)	Weight lb. (kg.)
M10432	1	230	11.7 (297)	23.1 (10.5)
M15432	1.5		11.7 (297)	23.1 (10.5)
M20432	2		13.8 (351)	27.4 (12.4)
M30432	3		15.3 (389)	32 (14.5)
M50432	5		21.7 (550)	55 (24.9)
M75432	7.5		27.7 (703)	70 (31.8)
M10434	1	460	11.7 (297)	23.1 (10.5)
M15434	1.5		11.7 (297)	23.1 (10.5)
M20434	2		13.8 (351)	27.4 (12.4)
M30434	3		15.3 (389)	32 (14.5)
M50434	5		21.7 (550)	55 (24.9)
M75434	7.5		27.7 (703)	70 (31.8)

AGENCY LISTINGS



Pump / Water End and CentriPro Motor - tested to UL778 and CAN 22.2 by CSA International (Canadian Standards Association)



Pump/Water End - Drinking Water System Components - Certified to NSF/ANSI 61, Annex G

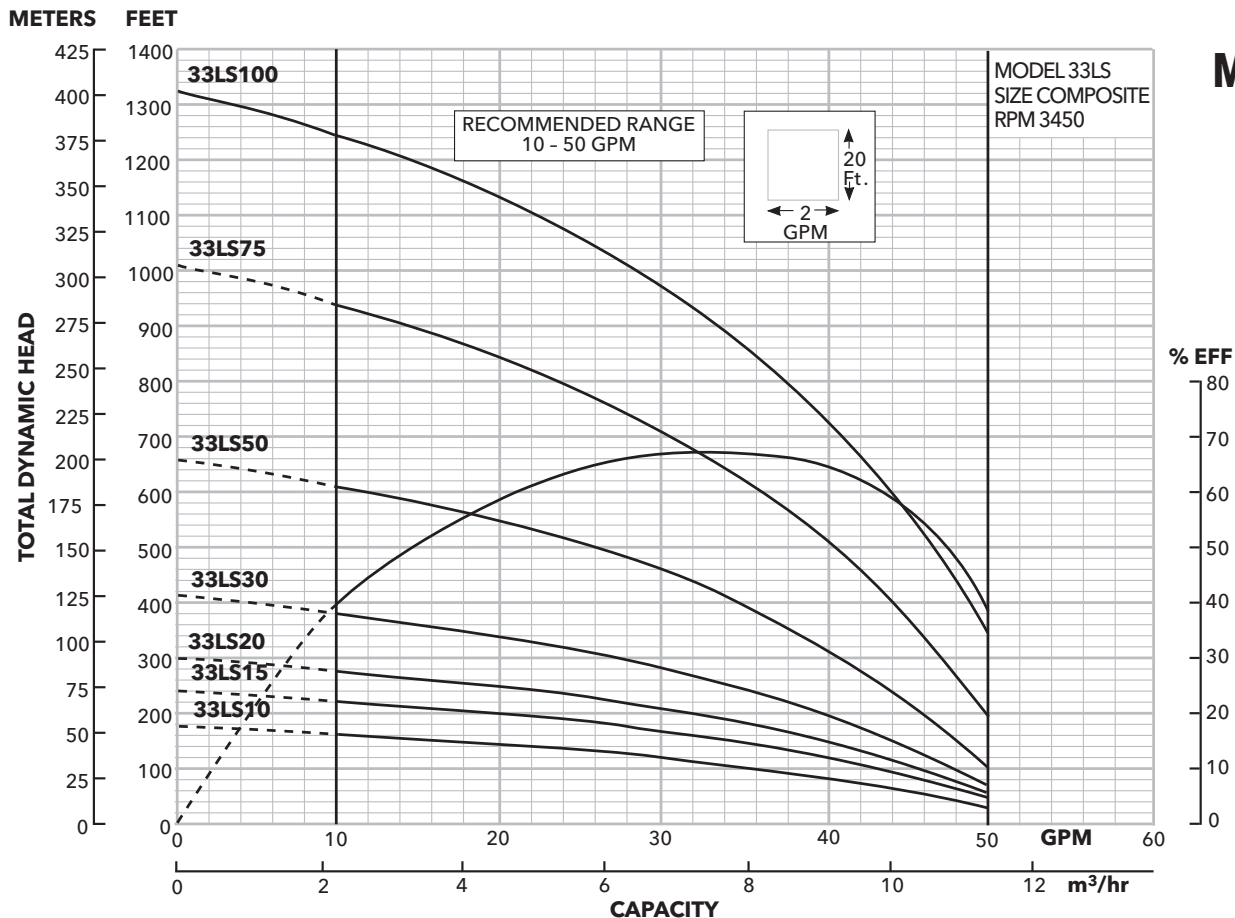


CentriPro Motor - Certified to NSF/ANSI 61, Annex G, Drinking Water System Components 4P49

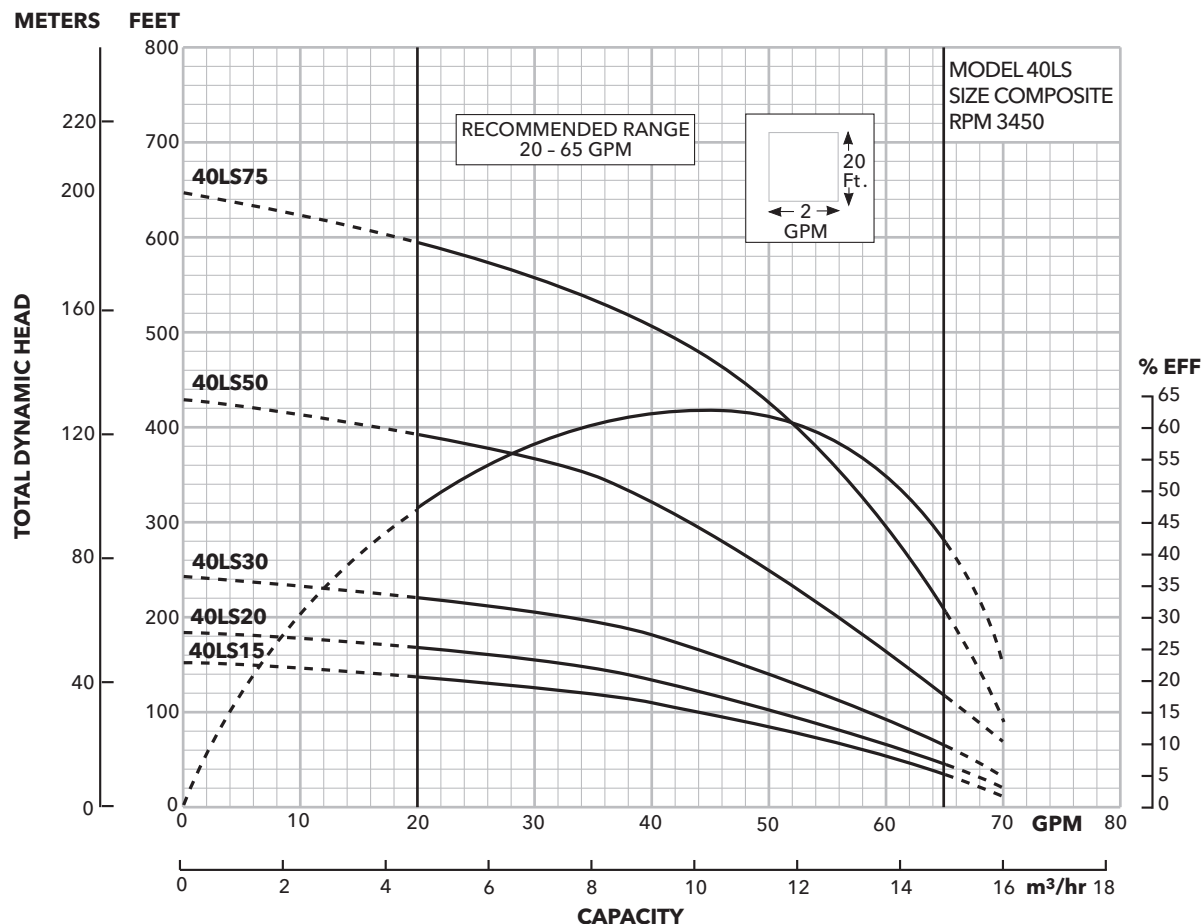


NSF/ANSI 372 - Drinking Water System Components - Lead Content

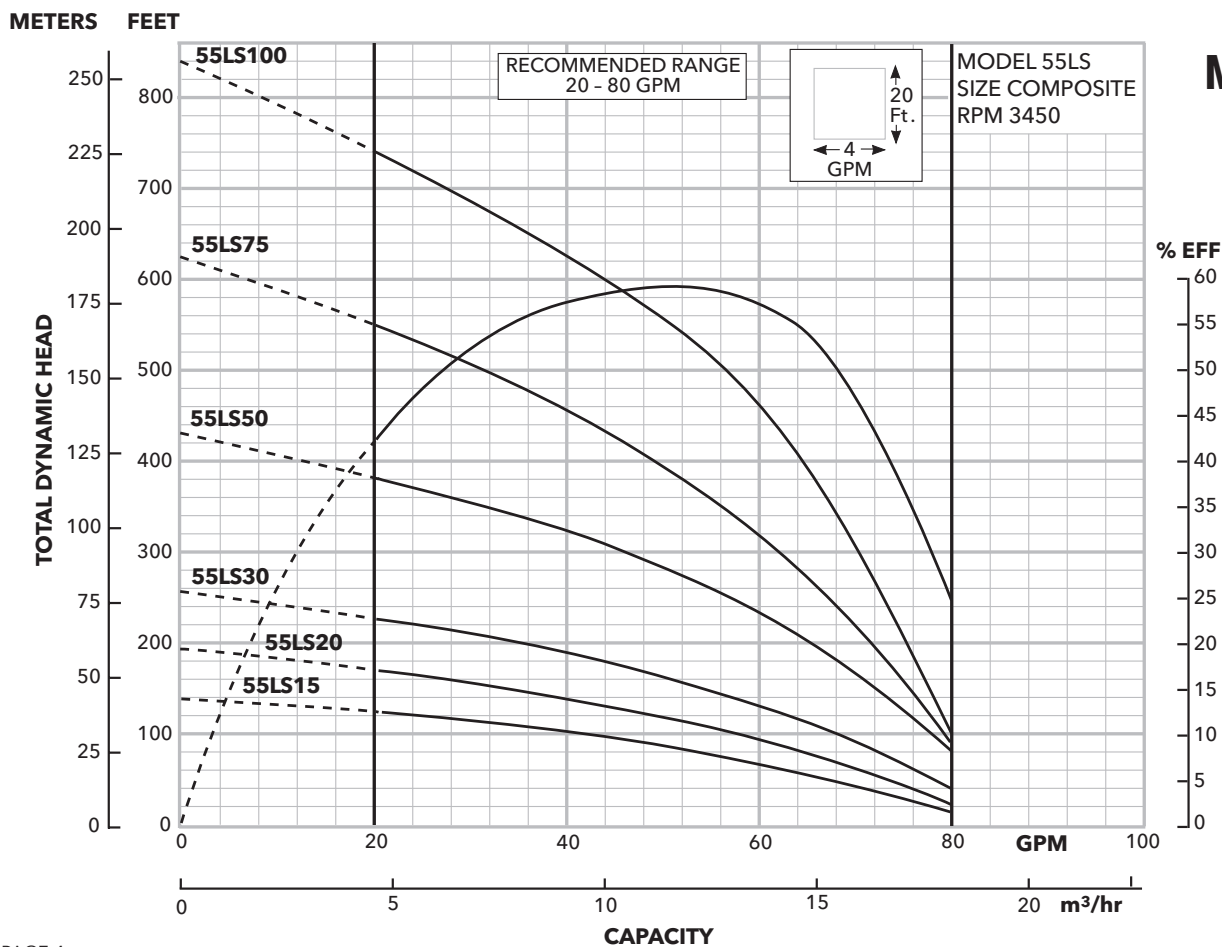
CLASS 6853 01 - Low Lead Content Certification Program -- Plumbing Products



Model 40LS



Model 55LS



Residential Water Systems

MODEL 33LS

SELECTION CHART

Horsepower Range 1 - 3, Recommended Range 10 - 50 GPM, 60 Hz, 3450 RPM

Pump Model	HP	PSI	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																											
			20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	520	560	600	
33LS10	1	0		48	45	41	36	30	22	11																				
		20	44	39	34	28	19																							
		30	39	33	27	17																								
		40	32	25	15																									
		50	24	14																										
		60	12																											
Shut-off PSI		67	58	50	41	32	24	15	6																					
33LS15	1½	0		50	48	46	43	40	37	32	26	19																		
		20	48	45	43	39	35	31	24	17																				
		30	45	42	39	35	30	23	15																					
		40	42	38	34	29	22	14																						
		50	38	33	28	21	12																							
		60	33	27	20	11																								
Shut-off PSI		95	86	78	69	60	52	43	34	26	17																			
33LS20	2	0			49	48	46	44	41	38	35	32	28	22																
		20	49	47	45	43	40	38	34	31	26	21	14																	
		30	47	45	42	40	37	34	30	25	20	13																		
		40	44	42	40	37	33	29	24	19	11																			
		50	42	39	36	33	29	24	18																					
		60	39	36	32	28	23	16																						
Shut-off PSI		121	112	103	95	86	77	69	60	51	43	34	26																	
33LS30	3	0				49	48	46	45	43	41	40	38	35	33	31	28	24	20	15										
		20	50	49	47	46	44	43	41	39	37	35	32	30	27	23	19	13												
		30	49	47	46	44	42	41	39	37	34	32	29	26	22	18	12													
		40	47	45	44	42	40	38	36	34	32	29	25	22	17	11														
		50	45	44	42	40	38	36	34	31	28	25	21	16																
		60	43	42	40	38	36	33	31	28	24	20	15																	
Shut-off PSI		170	161	152	144	135	126	118	109	100	92	83	74	66	57	48	40	31	23											

Horsepower Range 5 - 10, Recommended Range 10 - 50 GPM, 60 Hz, 3450 RPM

Pump Model	HP	PSI	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																											
			50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	
33LS50	5	0			50	48	46	44	41	38	35	31	27	20	11															
		20	50	48	46	44	41	38	35	32	27	21	11																	
		30	49	47	45	43	40	37	34	30	25	17																		
		40	48	46	44	41	39	36	32	27	21	12																		
		50	47	45	43	40	37	34	30	25	18																			
		60	46	44	42	39	36	32	28	22	13																			
Shut-off PSI		264	242	220	199	177	156	134	112	91	69	47	26																	
33LS75	7½	0				50	48	47	46	44	42	40	38	36	33	31	27	23	19	14										
		20				50	49	47	46	44	42	41	38	36	34	31	28	24	19	14										
		30			50	49	48	46	45	43	42	40	37	35	32	29	26	22	17	12										
		40			50	49	47	46	44	43	41	39	36	34	31	28	24	20	15											
		50			49	48	47	45	43	42	40	38	35	33	30	26	22	17	12											
		60	50	49	47	46	44	43	41	39	37	34	31	28	24	20	15													
Shut-off PSI		415	393	371	350	328	306	285	263	241	220	198	176	155	133	111	90	68	47											
33LS100	10	0							49	48	46	45	43	42	41	40	39	38	36	34	31	28	25	22	18	13				
		20							50	48	46	45	43	42	41	40	39	38	36	34	31	29	25	22	18	14				
		30							49	47	45	44	43	42	41	40	38	37	35	33	30	27	24	20	16	12				
		40							50	48	46	45	44	43	42	41	40	39	38	36	34	32	29	26	22	18	14			
		50							49	47	45	44	43	42	41	40	39	37	35	33	30	27	24	20	16	12				
		60						50	48	46	45	44	43	42	41	39	38	36	34	32	29	26	22	19	14					
Shut-off PSI		551	529	508	486	464	443	421	399	378	356	334	313	291	269	248	226	205	183	161	140	118	96	75	53					

MODEL 40LS

SELECTION CHART

Horsepower Range 1½ - 7½, Recommended Range 20 - 65 GPM, 60 Hz, 3450 RPM

Pump Model	HP	PSI	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																											
			20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	440	480	520	560	600	640		
40LS15	1½	0		65	59	53	46	35																						
		20	58	51	43	31																								
		30	50	41	28																									
		40	40	25																										
		50	22																											
		60																												
Shut-off PSI			57	49	40	31	23	14																						
40LS20	2	0			63	58	53	47	38	25																				
		20	61	57	51	44	35																							
		30	56	50	43	33																								
		40	49	42	31																									
		50	40	29																										
		60	26																											
Shut-off PSI			71	62	53	45	36	27	19	10																				
40LS30	3	0				63	59	56	51	47	41	33	20																	
		20	65	62	58	54	50	45	38	32	30																			
		30	61	58	54	49	44	37	28																					
		40	57	53	48	43	36	26																						
		50	52	48	42	35	24																							
		60	47	41	33	21																								
Shut-off PSI			97	88	80	71	62	54	45	36	28	19	10																	
40LS50	5	0					65	64	62	60	58	56	53	51	48	45	42	38	33	26										
		20				65	63	61	59	57	55	52	50	47	44	41	36	31	23											
		30			64	63	61	59	57	54	52	50	47	44	40	36	30	21												
		40		64	62	60	58	56	54	52	49	46	43	39	35	29	20													
		50	64	62	60	58	56	54	51	49	46	43	39	34	28															
		60	62	60	58	56	53	51	48	45	42	38	33	26																
Shut-off PSI			178	169	161	152	143	135	126	117	109	100	91	83	74	65	57	48	39	31	22									
40LS75	7½	0									65	64	63	62	61	60	59	57	56	54	53	49	44	38	30					
		20									65	64	63	62	61	59	58	57	55	54	52	50	48	43	37	28				
		30									65	64	63	62	61	59	58	57	55	53	52	50	48	45	40	32	22			
		40									65	64	63	62	60	59	58	56	55	53	51	49	47	45	42	36	27			
		50									65	64	62	61	60	59	58	56	55	53	51	50	47	45	42	39	31	20		
		60			65	64	63	62	61	60	59	57	56	54	53	51	49	47	44	41	38	35	25							
Shut-off PSI			271	263	254	245	237	228	219	211	202	194	185	176	168	159	150	142	133	124	116	107	90	72	55	38				

MODEL 55LS

SELECTION CHART

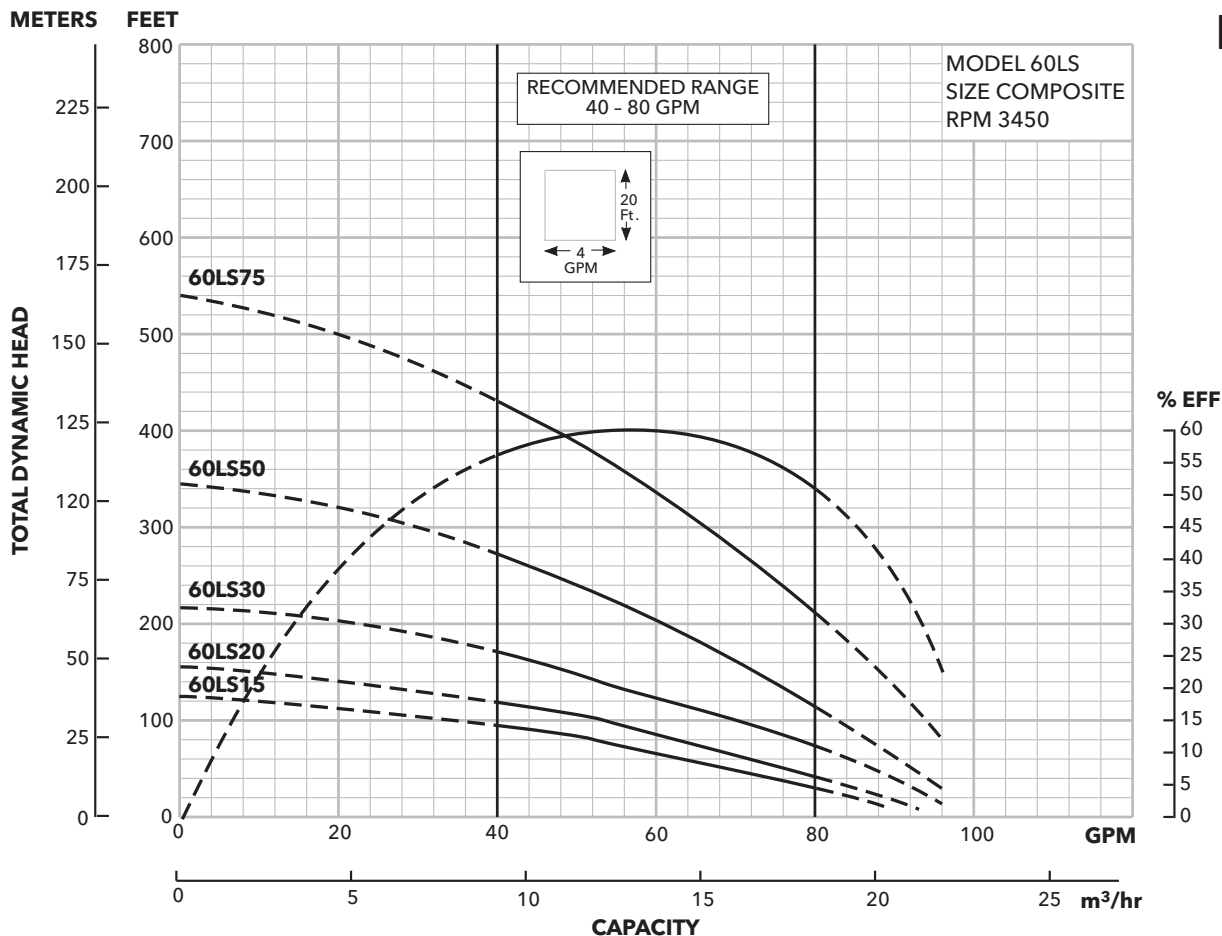
Horsepower Range 1½ - 5, Recommended Range 20 - 80 GPM, 60 Hz, 3450 RPM

Pump Model	HP	PSI	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																										
			20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500		
55LS15	1½	0	78	71	64	54	42	24																					
		20	61	51	37																								
		30	49	35																									
		40	32																										
		50																											
		60																											
Shut-off PSI			52	43	35	26	17	9																					
55LS20	2	0		76	71	65	58	50	41	28																			
		20	69	63	56	48	37	24																					
		30	62	55	46	35	21																						
		40	54	45	34																								
		50	43	32																									
		60	29																										
Shut-off PSI			76	67	58	50	41	32	24	15																			
55LS30	3	0		80	76	72	68	63	58	52	44	35																	
		20	75	71	67	62	56	49	42	32																			
		30	70	66	61	55	48	40	30																				
		40	65	60	54	47	39	28																					
		50	59	53	46	37	26																						
		60	52	45	36	25																							
Shut-off PSI			102	94	85	76	68	59	50	42	33	24																	
55LS50	5	0			80	78	76	73	71	68	65	62	58	55	50	46	40	34	27										
		20		80	77	75	73	70	67	64	61	57	53	49	44	39	32	25											
		30	79	77	75	72	70	67	64	60	57	53	48	43	38	31	24												
		40	77	74	72	69	66	63	60	56	52	47	42	37	30	23													
		50	74	71	69	66	63	59	55	51	47	42	36	29	22														
		60	71	68	65	62	59	55	51	46	41	35	28	20															
Shut-off PSI			178	169	161	152	143	135	126	117	109	100	91	83	74	65	57	48	39	31									

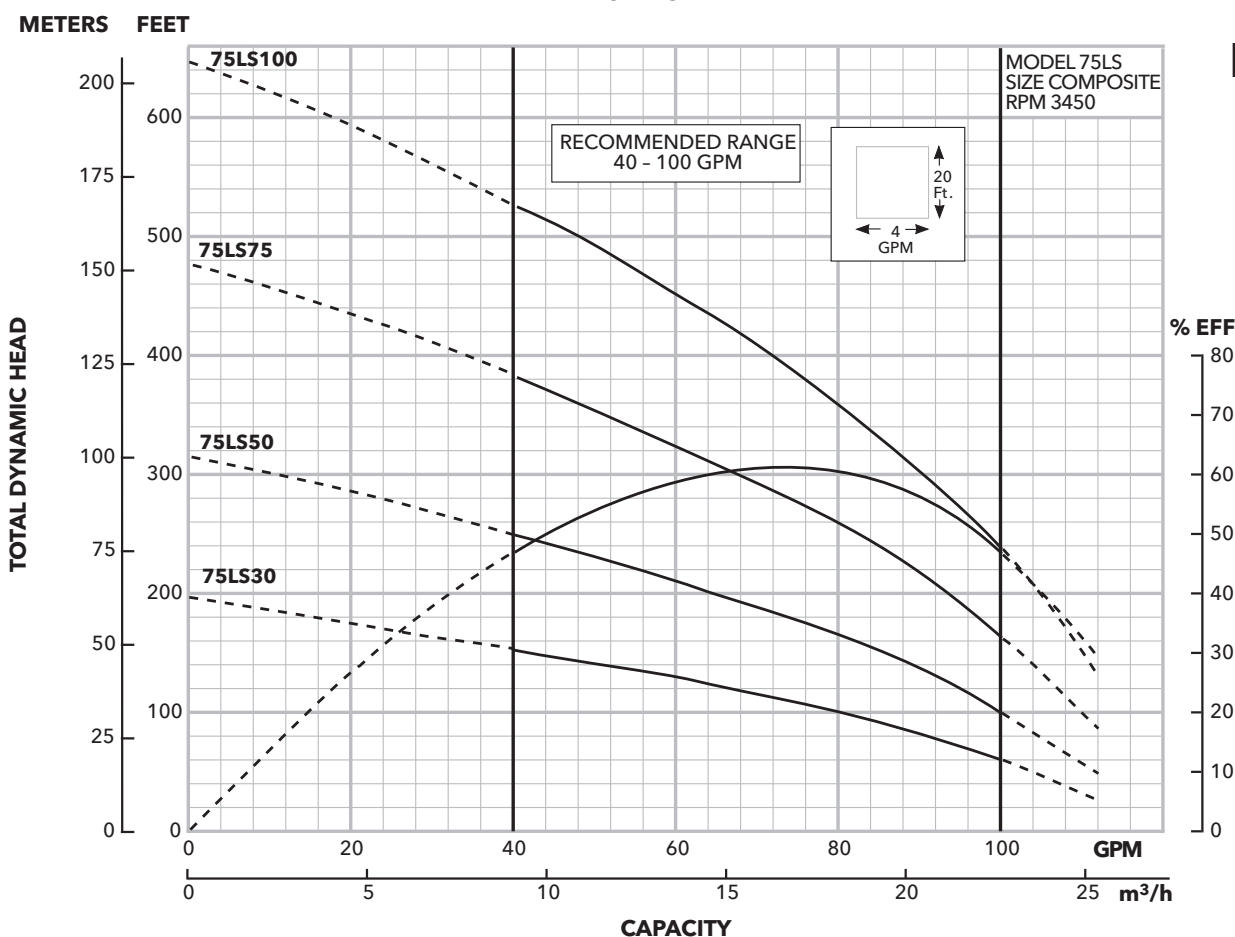
Horsepower Range 7½ - 10, Recommended Range 20 - 80 GPM, 60 Hz, 3450 RPM

Pump Model	HP	PSI	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																									
			20	60	100	140	180	220	260	300	340	380	420	460	500	540	580	620	660	700	740	780	820	860	900	940	980	
55LS75	7½	0			79	76	73	70	66	62	58	52	46	39	31	22												
		20		78	76	73	69	66	61	57	52	45	38	30	20													
		30	80	77	74	71	67	63	59	54	48	41	33	24														
		40	78	75	72	69	65	61	56	51	44	37	28															
		50	76	73	70	67	63	58	53	47	40	32	23															
		60	75	72	68	64	60	55	50	43	36	27																
Shut-off PSI			261	243	226	209	191	174	157	139	122	105	88	70	53	36												
55LS100	10	0			80	78	76	75	73	71	68	66	63	60	56	51	47	41	35	28								
		20		80	78	76	74	73	70	68	65	62	59	55	51	46	40	33	26									
		30		79	77	75	73	71	69	67	64	61	57	53	48	42	36	29	22									
		40	79	78	76	74	72	70	68	65	62	59	55	50	45	39	32	25										
		50	78	77	75	73	71	69	66	63	60	56	52	47	42	35	28	21										
		60	77	76	74	72	70	67	65	61	58	54	49	44	38	31	24											
Shut-off PSI			353	336	319	301	284	267	250	232	215	198	180	163	146	128	111	94	76	59								

Model 60LS



Model 75LS



MODEL 60LS

SELECTION CHART

Horsepower Range 1½ - 7½, Recommended Range 40 - 80 GPM, 60 Hz, 3450 RPM

Pump Model	HP	PSI	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																									
			20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480		
60LS15	1½	0		75	64	51																						
		20	60	47																								
		30	44																									
		40																										
		50																										
		60																										
Shut-off PSI			45	36	28	19																						
60LS20	2	0			73	63	52																					
		20	70	60	48																							
		30	58	46																								
		40	44																									
		50																										
		60																										
Shut-off PSI			58	50	41	32	24	15	6																			
60LS30	3	0				77	70	62	54	45																		
		20		74	67	59	51	42																				
		30	73	66	58	50	40																					
		40	65	57	48																							
		50	56	47																								
		60	45																									
Shut-off PSI			86	77	68	60	51	42	34	25																		
60LS50	5	0							75	70	65	60	55	49	43													
		20					73	69	64	59	53	47	41															
		30					73	68	63	58	52	47	40															
		40		76	72	67	62	57	52	46	39																	
		50	76	71	66	62	56	51	45	38																		
		60	70	66	61	55	50	44																				
Shut-off PSI			140	131	123	114	105	97	88	79	71	62	53	45	36													
60LS75	7½	0											78	75	72	69	66	62	59	55	51	47	42					
		20											80	77	74	71	68	65	61	58	54	50	46	41				
		30											80	77	74	71	68	64	61	57	53	49	45	40				
		40											79	76	73	70	67	64	60	56	52	48	44	40				
		50											79	76	73	70	67	63	60	56	52	48	43					
		60											78	76	73	69	66	63	59	55	51	47	43					
Shut-off PSI			224	215	207	198	189	181	172	163	155	146	137	129	120	111	103	94	85	77	68	59	51					

MODEL 75LS

SELECTION CHART

Horsepower Range 3 - 10, Recommended Range 40 - 100 GPM, 60 Hz, 3450 RPM

Pump Model	HP	PSI	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																										
			20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520	
75LS30	3	0					80	67	52																				
		20			77	63	47																						
		30		75	61	45																							
		40	73	58	42																								
		50	56	39																									
		60	37																										
Shut-off PSI			77	69	60	51	43	34	25																				
75LS50	5	0							90	83	75	65	55	44															
		20						80	72	62	51	41																	
		30					79	70	60	50																			
		40				78	69	59	48																				
		50			77	67	57	47																					
		60		75	66	55	45																						
Shut-off PSI			120	111	102	94	85	76	68	59	50	42	33																
75LS75	7½	0												80	75	68	61	54	47	40									
		20										79	73	66	59	52	45												
		30										78	72	65	58	51	44												
		40										77	71	64	57	50	43												
		50										76	70	63	56	49	42												
		60										75	69	62	55	48	41												
Shut-off PSI								146	137	129	120	111	103	94	85	77	68	59	51	42									
75LS100	10	0											100	97	95	92	88	85	81	76	72	67	62	56	51	45	40		
		20											99	96	94	91	87	84	79	75	70	65	60	55	49	44			
		30											99	96	94	91	87	83	79	74	69	64	59	54	48	43			
		40											98	96	93	90	86	82	78	74	69	64	58	53	48	42			
		50											98	95	92	89	86	82	77	73	68	63	57	52	47	41			
		60											100	97	95	92	89	85	81	77	72	67	62	57	51	46	40		
Shut-off PSI			272	263	254	246	237	228	220	211	202	194	185	176	168	159	150	142	133	124	116	107	98	90	81	72	64	55	

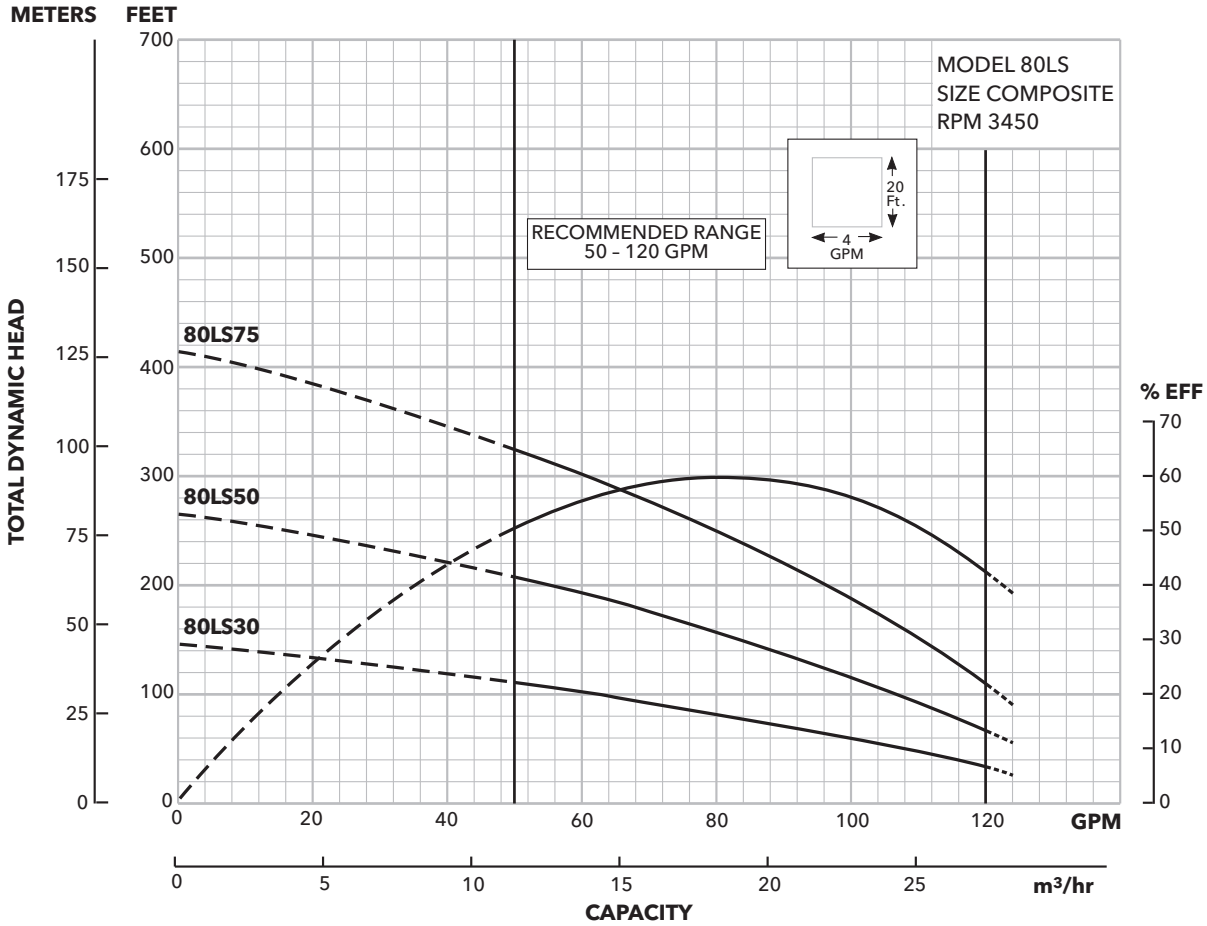
MODEL 80LS

SELECTION CHART

Horsepower Range 3 - 7½, Recommended Range 50 - 120 GPM, 60 Hz, 3450 RPM

Pump Model	HP	PSI	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																								
			20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	
80LS30	3	0		114	100	82	63																				
		20	94	77	57																						
		30	74	53																							
		40	50																								
		50																									
		60																									
Shut-off PSI			55	46	38	29	20																				
80LS50	5	0				115	106	98	89	79	68	55															
		20	120	112	104	95	86	75	64	51																	
		30	111	102	94	84	74	62																			
		40	101	92	83	72	60																				
		50	91	81	70	58																					
		60	79	69	56																						
Shut-off PSI			107	98	90	81	72	64	55	46	38	29															
80LS75	7½	0						118	113	107	101	95	89	82	75	68	60										
		20						122	117	111	105	100	93	87	80	73	66										
		30						121	116	110	105	99	92	86	79	72	65										
		40	120	115	109	104	98	91	85	78	71	63															
		50	114	109	103	97	90	84	77	70	62																
		60	108	102	96	89	83	76	69	61																	
Shut-off PSI			171	162	153	145	136	127	119	110	101	93	84	75	67	58	49										

Model 80LS





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