

Identify Flow Range & Minimum Well I.D. Requirements

Use **CHART A** to select a model according to the pump's actual flow rate. If two or more models are applicable, select the model with the lowest maximum flow rate. Note also the minimum required well I.D. If the well is not large enough, select another available model which accommodates the flow rate and well I.D. Circle the appropriate model on this worksheet.

CHART A

The following data applies only to the basic separator. Since the pump enclosure shell for submersible separators is predicated on the actual pump's dimensions, standard specifications cannot be published.

Complete the LAKOS PPS Worksheet (LS-423) when placing your order to ensure correct sizing.



Model	Minimum Well I.D. in./mm	Flow Range U.S. gpm m ³ /hr	Outside Diameter in./mm	Length with Riser & Flapper Valve in./mm	Riser Size N.P.T.	Weight lbs./kg	Required Minimum Submergence ft/m	Optional Tail Pipe Diameter in.	Optional Tail Pipe Length ft/m
PPS-100-D	6 153	100-175 23-40	5 ⁵ / ₈ 143	88% 2245	2½-inch	93 42	30 9.2	0.75	20 6.1
PPS-125-E	7 178	125-250 28-57	5 ¹ / ₆ 141	106 2692	3-inch	142 64	30 9.2	1	20 6.1
PPS-150-F	8 204	150-325 34-74	6% 168	120% 3054	4-inch	220 100	30 9.2	1	20 6.1
PPS-325-GSA	9¾ 248	325-520 74-118	8% 219	124 3150	6-inch	191 87	60 18.4	1.25	40 12.2
PPS-520-GGA	9¾ 248	520-710 118-161	8% 219	130 3302	6-inch	213 97	60 18.4	1.25	40 12.2
PPS-325-G	10¾ 273	325-650 74-148	8% 219	132½ 3366	6-inch	267 121	30 9.2	1.25	20 6.1
PPS-600-HSA	12 305	600-910 136-207	10% 270	141½ 3594	8-inch	281 128	60 18.4	1.5	60 18.3
PPS-880-HHA	12 305	880-1375 200-312	10% 270	145¾ 3702	8-inch	315 143	60 18.4	1.5	60 18.3
PPS-550-H	13 ¼ 337	550-1110 125-252	10¾ 273	147 3734	8-inch	390 177	30 9.2	1.5	20 6.1
PPS-1290-ISA	13 ¼ 337	1290-1700 293-386	10¾ 273	150½ 3823	8-inch	393 178	60 18.4	1.5	60 18.3
PPS-825-I	15 ¼ 388	825-1450 187-329	12¾ 324	154 3912	8-inch	454 206	30 9.2	1.5	20 6.1
PPS-1460-JSA	15 ¼ 388	1460-2040 332-463	12¾ 324	158 4013	10-inch	492 223	60 18.4	2	60 18.3
PPS-1010-J	17 ¼ 438	1010-1800 229-409	14 356	163 4140	10-inch	526 239	30 9.2	2	20 6.1
PPS-1780-KSA	17 ¼ 438	1780-2420 404-550	14 356	170 4318	10-inch	575 261	60 18.4	2	60 18.3
PPS-1640-K	19 ¼ 489	1640-2560 372-581	16 406	185 4699	10-inch	703 319	30 9.2	2	20 6.1
PPS-2520-KKA	19 ¼ 489	2520-3180 572-722	16 406	204 5182	12-inch	754 342	60 18.4	2	60 18.3

Determine Pump Enclosure Shell Size

(Submersible Pumps Only)

The submersible pump must fit into this shell. Using **CHART B**, locate the pump's maximum flow rate (in U.S. gpm) along the horizontal scale and the maximum diameter of your pump or motor (whichever is larger) along the vertical scale. Find the intersection point of these two values. The "range" it lies within dictates the required pump shell size (indicated in the circle).

NOTE: If the intersecting point is directly on the line between two "ranges," you must select the larger shell size. Circle the appropriate shell size on this worksheet.

Use **CHART C** to determine if the well I.D. is large enough to accommodate the required pump enclosure shell. Required pump shell sizes are shown in the circles.

CHART B

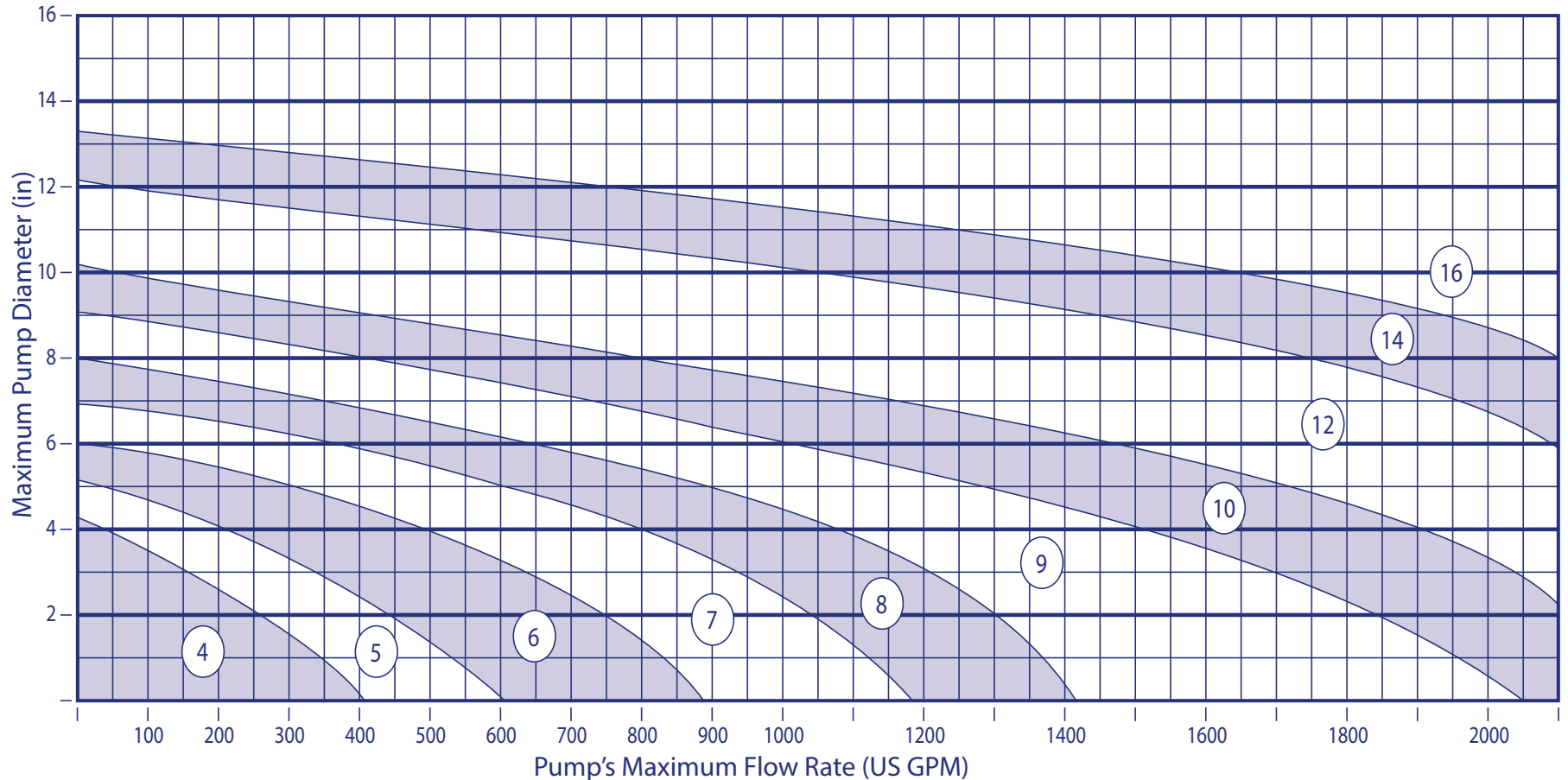


CHART C

Pump Enclosure Shell Size	4	5	6	7	8	9	10	12	14	16
Minimum Well I.D. (inches)	5 ½	6 ½	7 ¾	8 ¾	10	11	12	14	16	18

Select A Pump Enclosure Shell Kit

Use **CHART D** below to determine proper sizing for optional shell kits. For 9", 12", 14" and 16" shells, select a custom pump enclosure shell.

CHART D

	Pump Riser	Separator	Shell Weld Kit Part Numbers		Description
			Top	Bottom	
6 inch shell	2.5	D	Top	135161	2.5" NPT Riser, 6" Diameter
			Bottom	135168	PPS-D, 6" Diameter
	3	D	Top	135162	3" NPT Riser, 6" Diameter
			Bottom	135168	PPS-D, 6" Diameter
	3	E	Top	135162	3" NPT Riser, 6" Diameter
			Bottom	135169	PPS-E, 6" Diameter
	3	F	Top	135162	3" NPT Riser, 6" Diameter
			Bottom	135170	PPS-F, 6" Diameter
	4	D	Top	135163	4" NPT Riser, 6" Diameter
			Bottom	135168	PPS-D, 6" Diameter
	4	E	Top	135163	4" NPT Riser, 6" Diameter
			Bottom	135169	PPS-E, 6" Diameter
4	F	Top	135163	4" NPT Riser, 6" Diameter	
		Bottom	135170	PPS-F, 6" Diameter	
8 inch shell	3	D	Top	135164	3" NPT Riser, 8" Diameter
			Bottom	135171	PPS-D, 8" Diameter
	3	E	Top	135164	3" NPT Riser, 8" Diameter
			Bottom	135172	PPS-E, 8" Diameter
	3	F	Top	135164	3" NPT Riser, 8" Diameter
			Bottom	135173	PPS-F, 8" Diameter
	3	G	Top	135164	3" NPT Riser, 8" Diameter
			Bottom	135174	PPS-G, 8" Diameter
	4	D	Top	135165	4" NPT Riser, 8" Diameter
			Bottom	135171	PPS-D, 8" Diameter
	4	E	Top	135165	4" NPT Riser, 8" Diameter
			Bottom	135172	PPS-E, 8" Diameter
4	F	Top	135165	4" NPT Riser, 8" Diameter	
		Bottom	135173	PPS-F, 8" Diameter	
4	G	Top	135165	4" NPT Riser, 8" Diameter	
		Bottom	135174	PPS-G, 8" Diameter	
10 inch shell	4	G	Top	135166	4" NPT Riser, 10" Diameter
			Bottom	135175	PPS-G, 10" Diameter
	6	G	Top	135167	6" NPT Riser, 10" Diameter
			Bottom	135175	PPS-G, 10" Diameter
	6	H	Top	135167	6" NPT Riser, 10" Diameter
			Bottom	135176	PPS-H, 10" Diameter

Optional Shell Weld Kit



Top with Pump Riser Connection



Bottom with Separator Connection

Selecting A Custom Pump Enclosure Shell

Use **CHART E** below to determine standard shell sizes.

CHART E

**Please consult factory for availability and part number*

Shell Diameter	Separator Size	Riser Size (MNPT)	Overall Pump and Motor Length Plus 8"				
			Up to 72"	73" to 96"	97" to 120"	121" to 144"	145" to 168"
6 inch	D	2.5	128385	128386	128387	128388	128389
		3	128413	128414	128415	128416	128417
		4	128418	128419	128420	128421	128422
	E	3	128423	128424	128425	128426	128427
		F	2	*	136512	*	*
	7 inch	D	3	128433	128434	128435	128436
4			128438	128439	128440	128441	128442
E		3	128443	128444	128445	128446	128447
		4	128448	128449	128450	128451	128452
F		3	128453	128454	128455	128456	128457
		4	128458	128459	128460	128461	128462
8 inch	D	3	128463	128464	128465	128466	128467
		4	128468	128469	128470	128471	128472
	E	3	128473	128474	128475	128476	128477
		4	128478	128479	128480	128481	128482
	F	3	128483	128484	128485	128486	128487
		4	128488	128489	128490	128491	128492
		5	120615	*	*	*	*
	G	4	128493	128494	128495	128496	128497
		5	*	*	115953	*	*
		6	*	136203	*	*	*
9 inch	F	4	128498	128499	128500	128501	128502
		6	*	*	*	114465	*
	G	4	128503	128504	128505	128506	128507
		5	*	*	115921	*	*
		6	128508	128509	128510	128511	128512
		F	4	*	*	136214	*
10 inch	G	4	128513	128514	128515	128516	128517
		5	*	*	136787	*	*
		6	128518	128519	128520	128521	128522
	H	6	128523	128524	128525	128526	128527
		8	*	*	136165	*	*
12 inch	Any	Any	*	*	*	*	*
14 inch	Any	Any	*	*	*	*	*
16 inch	Any	Any	*	*	*	*	*