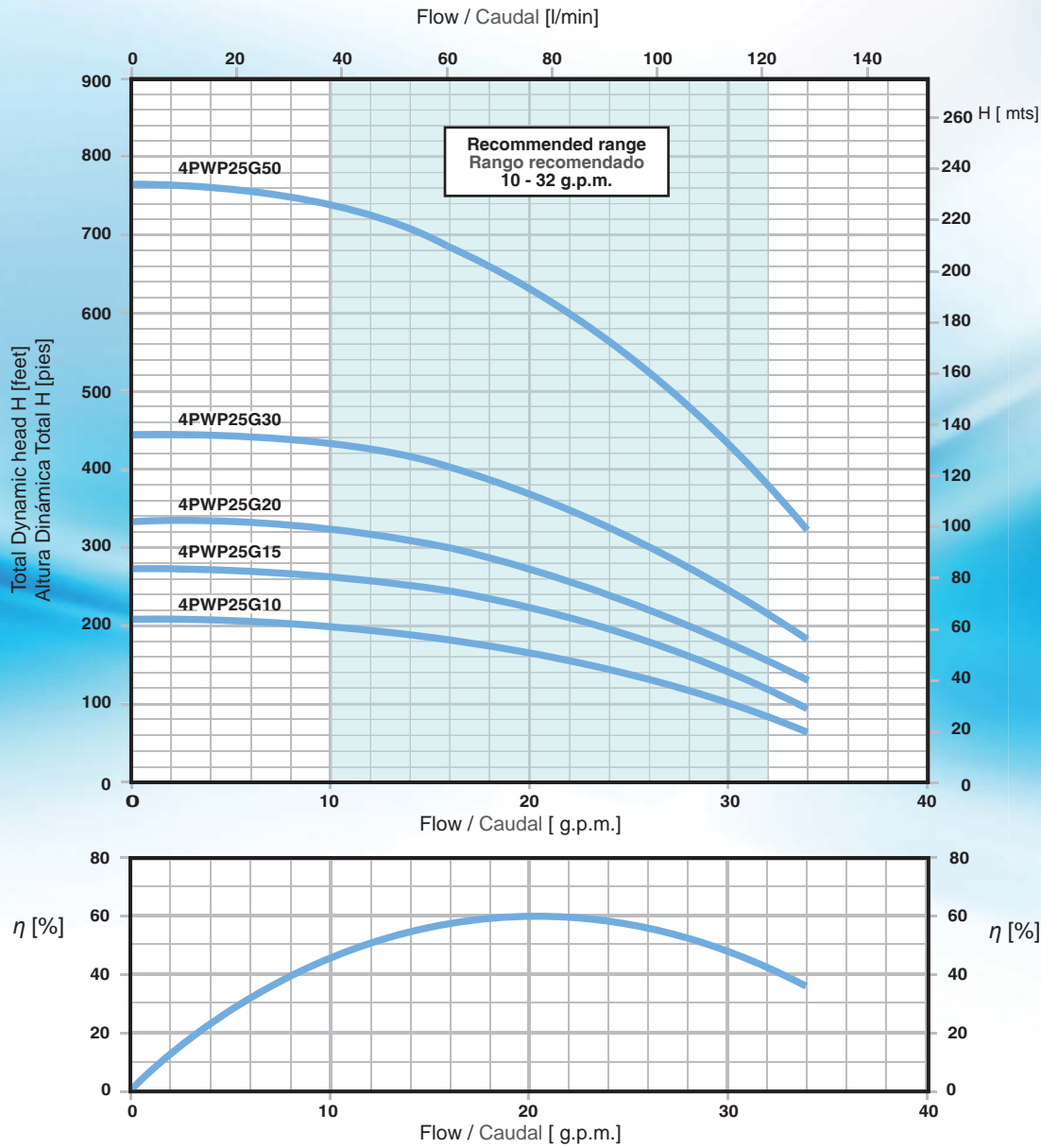


# Pearl 4PWP25

Performance Curves at 3450 r.p.m. / Curvas de Rendimiento a 3450 r.p.m.



1 1/4"  
DISCHARGE  
DESCARGA



## Selection Chart / Tabla de Selección

MODEL MODELO	STAGES / ETAPAS	MOTOR		Q = FLOW / CAUDAL																				PUMP END HIDRAULICA					
				l/min		30		35		40		50		60		70		80		90		100				120			
		KW	HP	0	7.9	9.3	10.6	13.2	15.9	18.5	21.2	23.8	26.5	31.7	H = TOTAL HEAD IN METERS / FEET   ALTURA DINAMICA TOTAL EN METROS / PIES		mm	in	kgs	lbs									
m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft						
4PWP25G10	7	0.75	1	64	210	63	207	62	203	61	200	59	194	57	187	54	177	50	164	45	148	40	131	27	89	320	12.6	3.1	6.9
4PWP25G15	9	1.1	1.5	83	272	82	269	81	266	79	259	77	253	74	243	71	233	66	216	60	197	53	174	38	125	370	14.6	3.5	7.7
4PWP25G20	11	1.5	2	101	331	100	328	98	321	96	315	94	308	91	298	86	282	81	266	75	246	67	220	49	161	419	16.5	3.9	8.6
4PWP25G30	15	2.2	3	137	449	136	446	134	440	132	433	128	420	124	407	109	358	112	367	103	338	93	305	70	230	518	20.4	4.7	10.4
4PWP25G50	26	3.7	5	234	768	232	761	228	748	223	731	218	715	210	689	200	656	188	617	175	574	160	525	122	400	826	32.5	7.1	15.7

## HP Range / Rango HP: 1 - 5 HP

Recommended Flow Range / Rango de Operación Recomendado: 10 - 32 g.p.m.

MODEL MODELO	HP	PSI	DEPTH TO WATER IN FEET / FLOW IN GPM   PROFUNDIDAD DEL AGUA EN PIES / CAUDAL EN GPM																											
			20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	340	380	420	460	500	540	580	620	660	700			
4PWP25G10	1.00	0			34	32	30	28	25	21	17	10																		
		20	34	31.5	29.8	27.8	24.5	20.7	16.5	11.8	11																			
		30	31.2	29	26.5	23	19	14.5	11	13																				
		40	28.8	26.3	22.8	18.8	14.2	11																						
		50	25.2	22.8	18.5	14	11																							
		60	21	17	12																									
Shut-off PSI Presión máx.PSI		91	82	74	65	56	48	39	30	22	13	4																		
4PWP25G15	1.5	0				34	32	30	28	26	24	21	17	10																
		20			33	31.5	29.2	27.2	24.5	23	20	16.5	12.5																	
		30		33	31	29	27	25	22.5	19	15	12																		
		40	31.5	31	28.8	26.8	24.8	22.5	19	15	12																			
		50	30.8	28.8	26.8	24.8	22.5	19	14.7	12																				
		60	28	26	24	21	17	13																						
Shut-off PSI Presión máx.PSI		118	109	101	92	83	75	66	57	49	40	31	23	14	5															
4PWP25G20	2	0						33.4	31.7	30	28	26	24	22	19.5	16	3													
		20					32.5	31.5	29.8	27.8	25.8	23.8	21.8	19.2	15.8	10.3														
		30			34	32	30.8	30	27	25	23	21.7	18	10	6															
		40		34	32.2	31.5	30	27	25	23	21	18	7	6																
		50	34	32	31.5	30	27	25	23	21	17	12	6																	
		60	31.7	30	28	26	24	22	19.5	16	10.5	2.5																		
Shut-off PSI Presión máx.PSI		143	135	126	117	109	100	91	83	74	65	57	48	40	31	22	14	4												
4PWP25G30	3	0								34	33	31.8	30.4	29	27.8	26	22.6	19	13											
		20							34	32.4	31.5	30.2	28.8	27.5	25.8	24	22.4	19	13											
		30						33.5	32.2	31.1	29.6	28.6	26.5	25	23.5	21.8	19.8	13												
		40					33	32.2	31.2	29.5	28.5	26.5	25	23.5	21.8	19	17	11												
		50				33.2	32	31	30	28.5	26.5	25	23.5	22	20	16.5	14													
		60		34	33	32	30.4	29	27.8	26	24.3	22.6	21	19	16.4	13	6													
Shut-off PSI		195	186	177	169	160	151	143	134	125	117	108	99	91	82	73	65	47	30	13										
4PWP25G50	5	0									33	31	29.5	27	25	22	18.7	14.8	7.5											
		20									33.2	31.2	29.7	27.2	25.2	22.2	19	15	7.3											
		30									34	32.5	30.5	28.5	26	23.5	20.8	16.5	12											
		40									34	33	31	29.5	27	25	22	19	15	9.8										
		50									34	32.2	30.5	28.2	26.5	23.8	21	18	13.5											
		60									33.5	31.5	29.5	27.5	25.3	22.5	19	15.5	9											
Shut-off PSI Presión máx.PSI		332	324	315	306	298	289	267	246	224	202	181	159	137	116	94	72	51	29	8										

\* Friction losses in pipe have not been calculated / Las pérdidas por fricción en la tubería no han sido consideradas.



# Pearl

## 4" Submersible Pumps

### Bombas Sumergibles de 4"



#### Application

Multi purpose applications in the residential, agriculture and industrial markets. Perfect for pressure boosting application, irrigation and water transfer.

#### Performance Range

- Flow from 5 GPM to 80 GPM.
- Head up to 1350 feet.

#### Features

- Continuous duty: PEARL submersible pumps can operate continuously without damage to any component.
- Impeller floating system: designed to guarantee the best performance and durability for sand handling.
- NEMA Standard motor adapter.
- Shaft for pumps with 19 and fewer stages are supplied with one shaft bearing. Shaft for pumps with more than 19 stages are supplied with 2 shaft bearings.
- Built-in stainless steel check valve.

#### Aplicaciones

Se usan en el mercado residencial, industrial y agricultura. Perfectas para aplicaciones en las cuales se necesita incrementar la presión, sistemas de riego y transferencia de agua.

#### Rango de Operación

- Caudal desde 5 Gpm (19 LPM) hasta 80 GPM (300 LPM).
- Presión hasta 1350 Pies (412 m).

#### Características

- Uso continuo: Las bombas sumergibles PEARL, pueden trabajar continuamente sin dañar ninguno de sus componentes.
- Sistemas de Impulsores Flotantes: Su diseño garantiza el mejor rendimiento y durabilidad aún en presencia de arena.
- Acople Motor-Bomba NEMA.
- El eje de las bombas de 19 etapas o menos viene con un soporte superior. Ejes de las bombas con más de 19 etapas viene con un soporte superior y un soporte intermedio.
- Válvula de retención incorporada.

#### Construction Materials

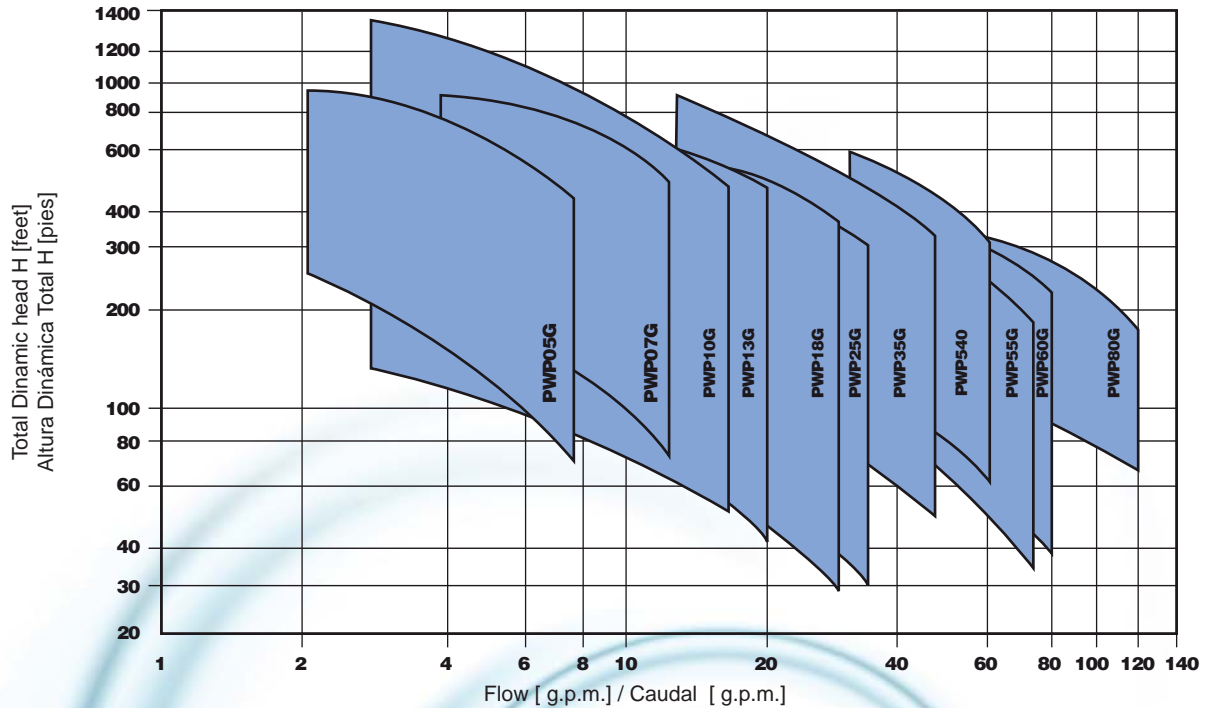
DISCHARGE HEAD	Stainless Steel 304, discharge 1 1/4" up to 25 GPM series and 2" from 35 GPM to 80 GPM series
MOTOR ADAPTER	Stainless Steel 304, NEMA standard
CHECK VALVE	Stainless Steel 304
EXTERNAL SLEEVE	Stainless Steel 304 Polished
IMPELLERS	Floating type impellers in Noryl
DIFFUSERS	Polycarbonate
SHAFT COUPLING	Stainless Steel 304
SHAFT	Stainless Steel 304
CABLE GUARD	Stainless Steel 304

#### Materiales de Construcción

DESCARGA	Acero inoxidable 304, diámetro de la descarga 1 1/4" en modelos hasta 25 GPM y 2" para modelos desde 35 gpm hasta 80 GPM
ADAPTADOR DE MOTOR	NEMA estándar en acero inoxidable 304
VALVULA CHECK	Acero inoxidable 304
CAMISA EXTERNA	Acero inoxidable 304 Pulido
IMPULSORES	Tipo flotante en Noryl
DIFUSORES	Tecnopolímero
ACOPLE DEL MOTOR	Acero inoxidable 304
EJE	Acero inoxidable 304
GUARDA CABLE	Acero inoxidable 304

# Range of Performance and Nomenclature Information Rango de Operación e Información de la Nomenclatura

## Performance Curves at 3450 r.p.m / Curvas de Rendimiento a 3450 r.p.m



## Reading the Pump Data in the Label / Lectura de la información de la bomba en la etiqueta

Example / Ejemplo:

Model   Modelo				HP
Pump shut off   Altura máxima total		Model: 4PWP10G	HP: 2	
Pump head at designed flow   Presión en caudal nominal		H. max: 640 feet	RPM: 3450	Motor RPM   RPM del motor
Pump serial   Número de serie de la bomba		H: 485 feet	Q: 10 GPM	Designed pump range   Caudal nominal
		S/N: T11010240001_001		
		Data Code DC 11A		Production data code   Fecha de producción

Model Number/  
Modelo

**4**

**WELL DIAMETER**  
Diámetro del pozo  
4 = 4 inches / plg  
6 = 6 inches / plg

**PWP**

**TYPE**  
Tipo  
PWP = Plastic Impeller  
Impulsor plástico  
PWS = 100% Stainless Steel  
Acero inoxidable

**18G**

**SERIES**  
05G = 5GPM  
07G = 7GPM  
10G = 10GPM  
13G = 13GPM  
18G = 18GPM  
25G = 25GPM  
35G = 35GPM  
40G = 40GPM  
55G = 55GPM  
60G = 60GPM  
80G = 80GPM

**10**

**HP**  
05 = 1/2 Hp  
07 = 3/4 Hp  
10 = 1 Hp  
15 = 1.5 Hp  
20 = 2 Hp  
30 = 3 Hp  
50 = 5 Hp  
75 = 7.5 Hp  
100 = 10 Hp

## Weight and Dimensions with Pearl 4" Motors Pesos y Dimensiones con Motor Pearl 4"

MODEL MODELO	HP	KW	PUMP END H1 HIDRÁULICA H1				1 PH MOTOR - 3W / MOTOR 1F - 3 HILOS						1 PH MOTOR - 2W / MOTOR 1F - 2 HILOS						3 PH MOTOR - 3W / MOTOR 3F - 3 HILOS							
			HEIGHT ALTURA		WEIGHT PESO		MOTOR H2		PUMP + MOTOR BOMBA + MOTOR				MOTOR H2		PUMP + MOTOR BOMBA + MOTOR				MOTOR H2		PUMP + MOTOR BOMBA + MOTOR					
			inches plg		cm		lbs		kg		inches plg		cm		lbs		kg		inches plg		cm		lbs		kg	
			inches plg	cm	lbs	kg	inches plg	cm	inches plg	cm	lbs	kg	inches plg	cm	inches plg	cm	lbs	kg	inches plg	cm	inches plg	cm	lbs	kg		
4PWP25G10	1.0	0.75	12.6	32.0	6.9	3.1	11.3	28.6	23.9	60.6	26.7	12.1	17.9	45.5	30.5	77.5	27.4	12.4	10.5	26.6	23.1	58.6	24.5	11.1		
4PWP25G15	1.5	1.1	14.6	37.0	7.7	3.5	13.0	33.1	27.6	70.1	32.0	14.5	19.7	50.0	34.3	87.0	32.7	14.8	11.3	28.6	25.8	65.6	27.6	12.5		
4PWP25G20	2	1.5	16.5	41.9	8.6	3.9	15.5	39.3	32.0	81.2	37.3	16.9							13.7	34.8	30.2	76.7	32.9	14.9		
4PWP25G30	3	2.2	20.4	51.8	10.4	4.7	16.3	41.3	36.7	93.1	40.9	18.5							15.5	39.3	35.9	91.1	39.1	17.7		
4PWP25G50	5	3.7	32.5	82.6	15.7	7.1	26.9	68.4	59.4	151.0	74.3	33.6							24.2	61.4	56.7	144.0	66.5	30.1		
4PWP35G10	1.0	0.75	14.1	35.9	7.5	3.4	11.3	28.6	25.4	64.5	27.4	12.4	17.9	45.5	31.8	80.8	28.1	12.7	10.5	26.6	24.6	62.5	25.2	11.4		
4PWP35G15	1.5	1.1	16.6	42.1	8.8	4.0	13.0	33.1	29.6	75.2	33.2	15.0	19.7	50.0	36.3	92.1	33.8	15.3	11.3	28.6	27.8	70.7	28.7	13.0		
4PWP35G20	2	1.5	19.0	48.3	10.2	4.6	15.5	39.3	34.5	87.6	38.9	17.6							13.7	34.8	32.7	83.1	34.5	15.6		
4PWP35G30	3	2.2	23.9	60.7	12.6	5.7	16.3	41.3	40.2	102.0	43.1	19.5							15.5	39.3	39.4	100.0	41.3	18.7		
4PWP35G50	5	3.7	35.2	89.3	17.9	8.1	26.9	68.4	62.1	157.7	76.5	34.6							24.2	61.4	59.3	150.7	68.7	31.1		
4PWP35G75	7.5	5.5	49.5	125.7	25.6	11.6													26.9	68.4	76.4	194.1	84.4	38.2		
4PWP40G15	1.5	1.1	12.8	32.5	6.9	3.1	13.0	33.1	25.8	65.6	31.2	14.1	19.7	50.0	32.5	82.5	31.8	14.4	11.3	28.6	24.1	61.1	26.7	12.1		
4PWP40G20	2	1.5	14.0	35.6	7.5	3.4	15.5	39.3	29.5	74.9	36.2	16.4							13.7	34.8	27.7	70.4	31.8	14.4		
4PWP40G30	3	2.2	16.5	41.8	8.8	4.0	16.3	41.3	32.7	83.1	39.3	17.8							15.5	39.3	31.9	81.1	37.6	17.0		
4PWP40G50	5	3.7	23.8	60.4	12.6	5.7	26.9	68.4	50.7	128.8	71.2	32.2							24.2	61.4	48.0	121.8	63.4	28.7		
4PWP40G75	7.5	5.5	33.8	85.9	17.2	7.8													26.9	68.4	60.7	154.3	76.0	34.4		
4PWP55G15	1.5	1.1	17.0	43.3	9.5	4.3	13.0	33.1	30.1	76.4	33.8	15.3	19.7	50.0	36.7	93.3	34.5	15.6	11.3	28.6	28.3	71.9	29.4	13.3		
4PWP55G20	2.0	1.5	21.1	53.7	11.7	5.3	15.5	39.3	36.6	93.0	40.4	18.3							13.7	34.8	34.8	88.5	36.0	16.3		
4PWP55G30	3.0	2.2	25.2	64.1	13.7	6.2	16.3	41.3	41.5	105.4	44.2	20.0							15.5	39.3	40.7	103.4	42.4	19.2		
4PWP55G50	5.0	3.7	37.5	95.3	19.9	9.0	26.9	68.4	64.4	163.7	78.5	35.5							24.2	61.4	61.7	156.7	70.7	32.0		
4PWP55G75	7.5	5.5	53.0	134.5	27.2	12.3													26.9	68.4	79.9	202.9	86.0	38.9		
4PWP60G15	1.5	1.1	14.9	37.8	8.6	3.9	13.0	33.1	27.9	70.9	32.9	14.9	19.7	50.0	34.6	87.8	33.6	15.2	11.3	28.6	26.1	66.4	28.5	12.9		
4PWP60G20	2	1.5	16.9	43.0	9.7	4.4	15.5	39.3	32.4	82.3	38.5	17.4							13.7	34.8	30.6	77.8	34.0	15.4		
4PWP60G30	3	2.2	21.0	53.4	11.7	5.3	16.3	41.3	37.3	94.7	42.2	19.1							15.5	39.3	36.5	92.7	40.4	18.3		
4PWP60G50	5	3.7	29.2	74.2	15.9	7.2	26.9	68.4	56.1	142.6	74.5	33.7							24.2	61.4	53.4	135.6	66.7	30.2		
4PWP60G75	7.5	5.5	43.0	109.2	22.3	10.1													26.9	68.4	69.9	177.6	81.1	36.7		
4PWP80G30	3	2.2	18.6	47.2	9.7	4.4	16.3	41.3	34.8	88.5	40.2	18.2							15.5	39.3	34.1	86.5	38.5	17.4		
4PWP80G50	5	3.7	29.3	74.3	12.4	5.6	26.9	68.4	56.2	142.7	70.9	32.1							24.2	61.4	53.4	135.7	63.2	28.6		
4PWP80G75	7.5	5.5	42.6	108.1	21.9	9.9													26.9	68.4	69.5	176.5	80.7	36.5		

## Weight and Dimensions with Franklin Electric Motors Pesos y Dimensiones con Motor Franklin Electric

MODEL MODELO	HP	KW	PUMP END H1 HIDRÁULICA H1				1 PH MOTOR - 3W / MOTOR 1F - 3 HILOS						1 PH MOTOR - 2W / MOTOR 1F - 2 HILOS						3 PH MOTOR - 3W / MOTOR 3F - 3 HILOS									
							MOTOR H2		PUMP + MOTOR BOMBA + MOTOR				MOTOR H2		PUMP + MOTOR BOMBA + MOTOR				MOTOR H2		PUMP + MOTOR BOMBA + MOTOR							
			HEIGHT ALTURA		WEIGHT PESO		inches plg	cm	lbs	kg	inches plg	cm	inches plg	cm	lbs	kg	inches plg	cm	inches plg	cm	lbs	kg	inches plg	cm	inches plg	cm	lbs	kg
			inches plg	cm	lbs	kg																						
4PWP25G10	1.0	0.75	12.6	32.0	6.9	3.1	11.7	29.8	24.3	61.8	30.9	14.0	11.7	29.8	24.3	61.8	30.9	14.0	11.7	26.6	23.1	58.6	30.9	14.0				
4PWP25G15	1.5	1.1	14.6	37.0	7.7	3.5	13.6	34.5	28.2	71.5	35.8	16.2	15.1	38.4	29.7	75.4	38.9	17.6	11.7	28.6	25.8	65.6	31.8	14.4				
4PWP25G20	2	1.5	16.5	41.9	8.6	3.9	15.1	38.4	31.6	80.3	41.8	18.9							13.6	34.8	30.2	76.7	36.7	16.6				
4PWP25G30	3	2.2	20.4	51.8	10.4	4.7	19.0	48.4	39.4	100.2	51.5	23.3							16.0	39.3	35.9	91.1	45.5	20.6				
4PWP25G50	5	3.7	32.5	82.6	15.7	7.1	29.2	74.1	61.7	156.7	86.9	39.3							23.2	61.4	56.7	144.0	71.8	32.5				
4PWP35G10	1.0	0.75	14.1	35.9	7.5	3.4	11.7	29.8	25.9	65.7	31.6	14.3	11.7	29.8	25.9	65.7	31.6	14.3	11.7	26.6	24.6	62.5	31.6	14.3				
4PWP35G15	1.5	1.1	16.6	42.1	8.8	4.0	13.6	34.5	30.2	76.6	36.9	16.7	15.1	38.4	31.7	80.5	40.0	18.1	11.7	28.6	27.8	70.7	32.9	14.9				
4PWP35G20	2	1.5	19.0	48.3	10.2	4.6	15.1	38.4	34.1	86.7	43.3	19.6							13.6	34.8	32.7	83.1	38.2	17.3				
4PWP35G30	3	2.2	23.9	60.7	12.6	5.7	19.0	48.4	42.9	109.1	53.7	24.3							16.0	39.3	39.4	100.0	47.7	21.6				
4PWP35G50	5	3.7	35.2	89.3	17.9	8.1	29.2	74.1	64.3	163.4	89.1	40.3							23.2	61.4	59.3	150.7	74.0	33.5				
4PWP35G75	7.5	5.5	49.5	125.7	25.6	11.6													29.2	68.4	76.4	194.1	97.5	44.1				
4PWP35G100	10	7.5	51.89	131.8	31.4	14.2													32.17	81.7	84.1	213.5	108.7	49.2				
4PWP40G15	1.5	1.1	12.8	32.5	6.9	3.1	13.6	34.5	26.4	67.0	34.9	15.8	15.1	38.4	27.9	70.9	38.0	17.2	11.7	28.6	24.1	61.1	30.9	14.0				
4PWP40G20	2	1.5	14.0	35.6	7.5	3.4	15.1	38.4	29.1	74.0	40.7	18.4							13.6	34.8	27.7	70.4	35.6	16.1				
4PWP40G30	3	2.2	16.5	41.8	8.8	4.0	19.0	48.4	35.5	90.2	49.9	22.6							16.0	39.3	31.9	81.1	44.0	19.9				
4PWP40G50	5	3.7	23.8	60.4	12.6	5.7	29.2	74.1	53.0	134.5	83.8	37.9							23.2	61.4	48.0	121.8	68.7	31.1				
4PWP40G75	7.5	5.5	33.8	85.9	17.2	7.8													29.2	68.4	60.7	154.3	89.1	40.3				
4PWP55G15	1.5	1.1	17.0	43.3	9.5	4.3	13.6	34.5	30.6	77.8	37.6	17.0	15.1	38.4	32.1	81.7	40.7	18.4	11.7	28.6	28.3	71.9	33.6	15.2				
4PWP55G20	2.0	1.5	21.1	53.7	11.7	5.3	15.1	38.4	36.2	92.1	44.9	20.3							13.6	34.8	34.8	88.5	39.8	18.0				
4PWP55G30	3.0	2.2	25.2	64.1	13.7	6.2	19.0	48.4	44.3	112.5	54.8	24.8							16.0	39.3	40.7	103.4	48.8	22.1				
4PWP55G50	5.0	3.7	37.5	95.3	19.9	9.0	29.2	74.1	66.7	169.4	91.1	41.2							23.2	61.4	61.7	156.7	76.0	34.4				
4PWP55G75	7.5	5.5	53.0	134.5	27.2	12.3													29.2	68.4	79.9	202.9	99.0	44.8				
4PWP60G15	1.5	1.1	14.9	37.8	8.6	3.9	13.6	34.5	28.5	72.3	36.7	16.6	15.1	38.4	30.0	76.2	39.8	18.0	11.7	28.6	26.1	66.4	32.7	14.8				
4PWP60G20	2	1.5	16.9	43.0	9.7	4.4	15.1	38.4	32.0	81.4	42.9	19.4							13.6	34.8	30.6	77.8	37.8	17.1				
4PWP60G30	3	2.2	21.0	53.4	11.7	5.3	19.0	48.4	40.1	101.8	52.8	23.9							16.0	39.3	36.5	92.7	46.9	21.2				
4PWP60G50	5	3.7	29.2	74.2	15.9	7.2	29.2	74.1	58.4	148.3	87.1	39.4							23.2	61.4	53.4	135.6	72.0	32.6				
4PWP60G75	7.5	5.5	43.0	109.2	22.3	10.1													29.2	68.4	69.9	177.6	94.1	42.6				
4PWP80G30	3	2.2	18.6	47.2	9.7	4.4	19.0	48.4	37.6	95.6	50.8	23.0							16.0	39.3	34.1	86.5	44.9	20.3				
4PWP80G50	5	3.7	29.3	74.3	12.4	5.6	29.2	74.1	58.4	148.4	83.5	37.8							23.2	61.4	53.4	135.7	68.5	31.0				
4PWP80G75	7.5	5.5	42.6	108.1	21.9	9.9													29.2	68.4	69.5	176.5	93.7	42.4				