

# ITT

BRJ6BFLO

Residential Water Systems

## Red Jacket Water Products

# BIG-FLO<sup>®</sup>

6" Submersibles

### FEATURES

- Smooth passageways provide low friction radial water flow.
- Noryl<sup>®</sup> impeller-diffuser assemblies are encased in a corrosion resistant stainless steel shell.
- Pump and motor assembly are corrosion resistant.
- Efficient operation in either horizontal or vertical position.
- Impeller-diffuser assemblies are mounted on a 16-spline steel shaft for positive drive.
- A top bearing is provided in the cast-iron discharge head for better shaft alignment.
- Replaceable journals protect shafts at bearings. Multi-stage construction permits modular or individual part replacements.
- Noryl<sup>®</sup>-staged components (impellers/diffusers) are permanently bonded by a reliable, foolproof, ultrasonic welding technique.
- Powered by CentriPro<sup>®</sup>. Motors are compatible with any competitive pump end of comparable horsepower.

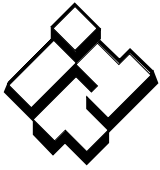


Red Jacket Water Products is a brand of ITT Corporation.

[www.redjacketwaterproducts.com](http://www.redjacketwaterproducts.com)

*Engineered for life*

Big-Flo submersible pump/motor units are designed for industrial 6 inch pumping applications with pump capacities up to 300 GPM for varying well depths.



# ITT

## Red Jacket Water Products Residential Water Systems

### "LB" Series Pumps – 55 GPM – 6"

#### PERFORMANCE

The pump and motor of the "LB" Series are most efficient at 55 GPM. This should be considered when selecting the desired model. The correct model can be selected from either the performance table or the graph on these pages. Performances shown do not include drop pipe friction.

#### "LB" SERIES, 55 GPM, PERFORMANCE TABLE (Recommended Operating Ranges)

Pump No.	Capacity in Gallons per Minute Against Discharge Pressures Shown																																	
	0 PSI					20 PSI					40 PSI					60 PSI																		
	2LB	3LB	5LB	8LB	10LB	15LB	20LB	25LB	2LB	3LB	5LB	8LB	10LB	15LB	20LB	25LB	2LB	3LB	5LB	8LB	10LB	15LB	20LB	25LB	2LB	3LB	5LB	8LB	10LB	15LB	20LB	25LB		
HP	2	3	5	7½	10	15	20	25	2	3	5	7½	10	15	20	25	2	3	5	7½	10	15	20	25	2	3	5	7½	10	15	20	25		
40								59	75								59	77								29	68							
80	63	77	89						61	78							36	70									58	77						
120	24	63	80						41	71									60	78							47	73	80					
160		46	72							61	79								49	73								67	77					
200			63	79						51	74								29	68	78							60	74					
240			52	75						35	69	78								61	74							52	69	80				
280			39	70	79						62	75								54	70	80						44	64	78				
320				63	75						55	71								46	65	78						32	58	76				
360				56	72						47	66	79							34	59	76							51	74	80			
400				48	67	79					36	60	77								52	74	81					44	72	79				
440				39	61	77						53	75							45	72	79						34	69	77				
480					54	75						46	72	79							36	69	77						65	75				
520					47	73	79					38	70	78								66	75						61	73				
560					39	70	78					24	66	76								62	74						57	72				
600					27	67	76						62	74								57	72						53	69	80			
640						63	74						58	72								53	70	80					49	67	79			
680						59	72						54	70	80							49	67	79					45	64	78			
720						55	70	80					50	68	79							45	65	78					40	61	77			
760						50	68	79					46	65	78							41	62	77					34	58	76			
800						46	66	79					42	62	77							35	59	76						55	74			
840						42	63	78					36	59	76							25	55	75					52	73				
880						37	60	76					27	56	75								52	73					49	71				
920						29	56	75						53	73							49	71						45	68				
960							53	74						50	71							46	69						42	66				
1000							50	72						46	69							43	66						38	63				
1040							47	70						43	67							39	64						32	61				
1080							44	67						39	64							33	61							58				
1120							40	65						34	61							26	58							55				
1160							35	62						27	59								55							52				
1200							28	59							56								53							50				
1300								52							49								46							42				
1400								45							41								36							27				
1500								34							26																			

#### "LB" SERIES, 55 GPM, SPECIFICATIONS

Water End	Required HP	No. of Stages	Pump Length	Pump Weight
2LB6-4	2 (4")	2	17"	24
3LB6-4	3 (4")	3	19"	35
5LB6-4	5 (4")	5	23"	40
8LB6	7½	8	29"	46
10LB6	10	10	32"	50
15LB6	15	15	42"	59
20LB6	20	20	52"	70
25LB6	25	25	70"	85

#### Notes:

All "LB" Series pumps have 5¾" maximum "O.D."

All "LB" Series pumps have discharge head tapped 3" NPT.

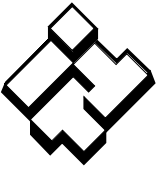
#### Important:

Check valve not furnished.

#### Minimum

Well Size:

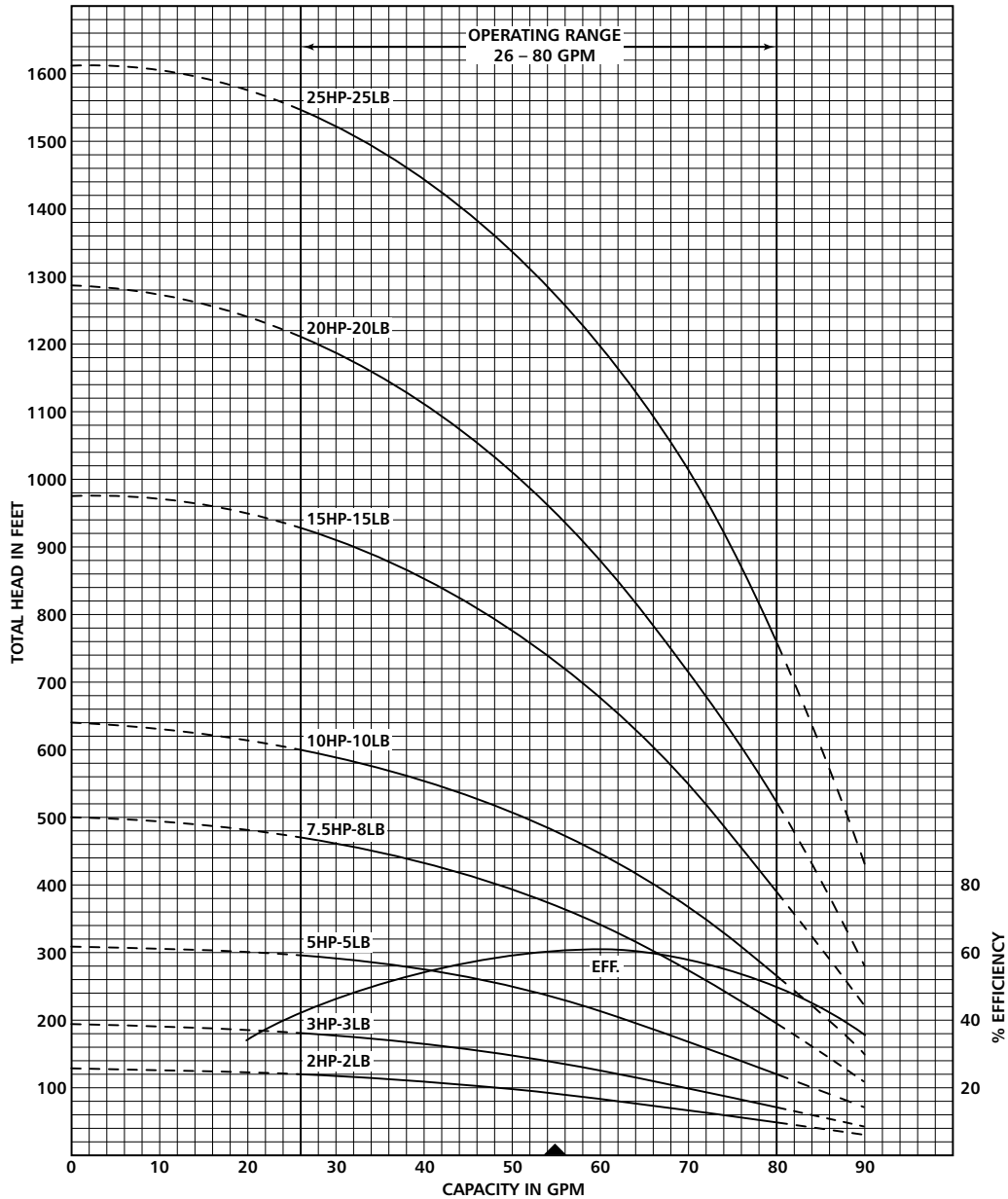
6" I.D.



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## Red Jacket Water Products Residential Water Systems

### "LB" Series Pumps – 55 GPM – 6"



▲ **Rated Flow at Best Efficiency**

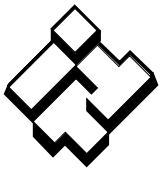
"LB" Series, 55 GPM

RPM 3450

Guaranteed as minimum performance only if certified.

**Minimum Well Size: 6" I.D.**

Note: Continuous operation outside operating range will void warranty.



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## Red Jacket Water Products Residential Water Systems

### "MB" Series Pumps – 85 GPM – 6"

#### PERFORMANCE

The pump and motor of the "MB" Series are most efficient at 85 GPM. This should be considered when selecting the desired model. Performances shown do not include drop pipe friction.

#### "MB" SERIES, 85 GPM, PERFORMANCE TABLE (Recommended Operating Ranges)

Pump No.		Capacity in Gallons per Minute Against Discharge Pressures Shown																														
		0 PSI						20 PSI						40 PSI						60 PSI												
		4MB	6MB	8MB	12MB	16MB	20MB	24MB	4MB	6MB	8MB	12MB	16MB	20MB	24MB	4MB	6MB	8MB	12MB	16MB	20MB	24MB	4MB	6MB	8MB	12MB	16MB	20MB	24MB			
HP		5	7½	10	15	20	25	30	5	7½	10	15	20	25	30	5	7½	10	15	20	25	30	5	7½	10	15	20	25	30			
40									112							91							64	106								
80	113								96							69	108							95	110							
120	98								74	110							97	111						82	107							
160	78	111							40	99	112						86	104						64	94	111						
200	48	101	113							88	106						68	96							83	106	116					
240		89	106							71	97	113					41	86	108						70	102	112					
280		74	98	114						47	87	108						73	103	113						52	96	109				
320		50	88	109							76	103	114					57	97	112							90	105	114			
360			77	104	114						60	98	110						92	106							84	101	112			
400			62	99	110							92	107							78	102							76	97	109		
440			40	93	107							86	103	113						69	98	110						67	92	107	112	
480				87	103	113						79	99	110						58	94	107	113					55	87	104	110	
520				80	99	111						70	95	108	114					40	89	105	111						82	101	108	
560				72	95	108	114					60	90	106	112						83	102	108						76	98	106	
600				61	90	105	111					46	89	102	109						78	98	106						70	95	103	
640				49	85	102	109						84	99	107							72	96	104						63	92	101
680					80	100	107						72	96	104							65	92	101						54	88	98
720					78	96	104							66	93	102						57	89	99						43	84	96
760					67	93	102						58	89	99							47	84	96							79	93
800					59	90	100						48	86	97								80	94							68	90
840					49	86	97							81	94								75	91							61	88
880						82	95							76	92								70	89							53	85
920						78	93							71	89								62	86							40	82
960						71	89							64	86								54	83								78
1000						65	86							56	84								42	79								74
1040						57	84							45	80									75								68
1080						46	80								75									70								62
1180							69																	52								
1280							50								40																	

#### "MB" SERIES, 85 GPM, SPECIFICATIONS

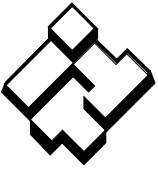
Water End	Required HP	No. of Stages	Pump Length	Pump Weight
4MB6-4	5 (4")	4	21"	28
6MB6	7½	6	25"	32
8MB6	10	8	29"	36
12MB6	15	12	37"	44
16MB6	20	16	45"	52
20MB6	25	20	60"	75
24MB6	30	24	68"	80

**Notes:**  
All "MB" Series pumps have 5¾" maximum "O.D."

All "MB" Series pumps have discharge head tapped 3" NPT.

**Important:**  
Check valve not furnished.

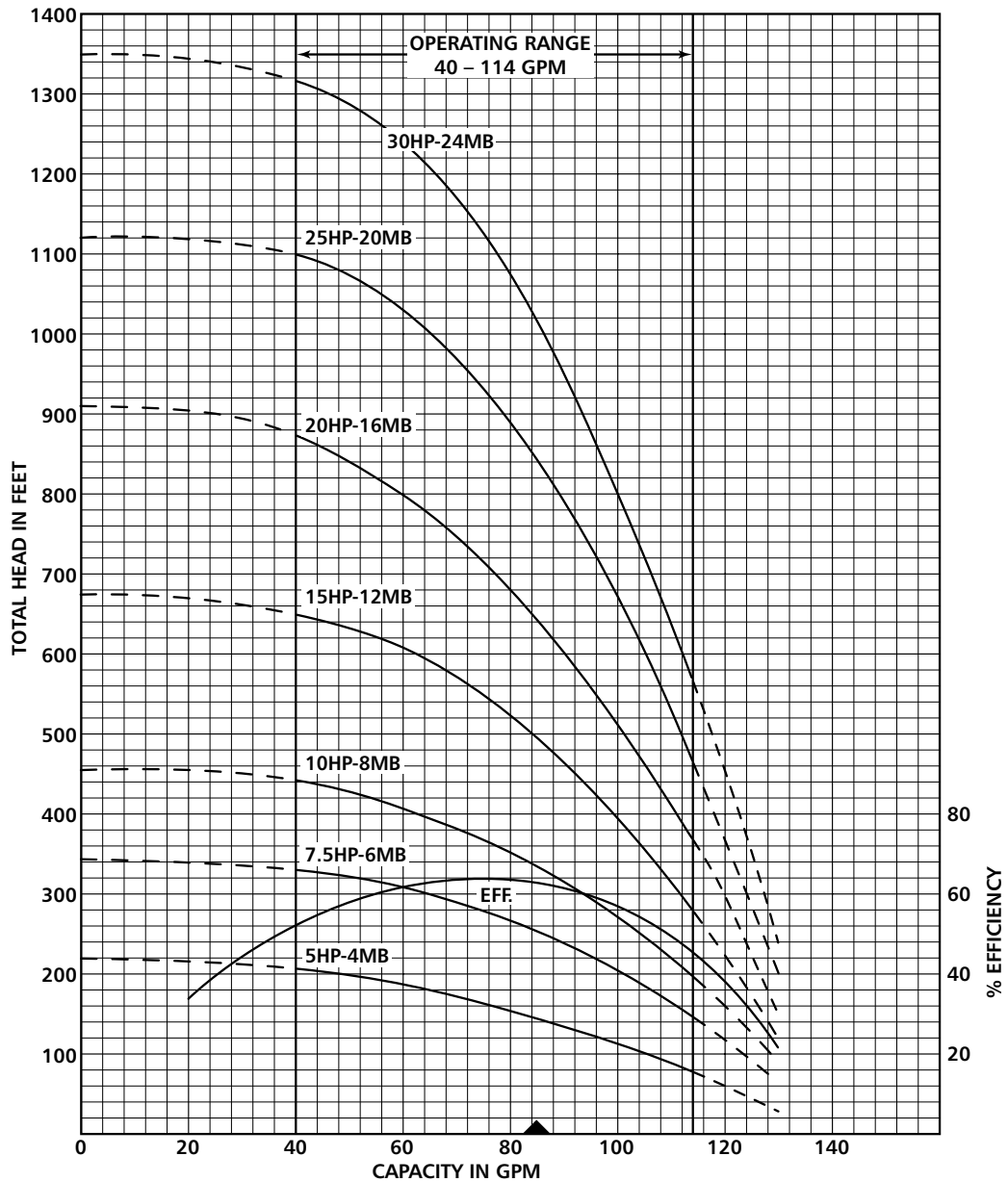
**Minimum Well Size:**  
6" I.D.



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## Red Jacket Water Products Residential Water Systems

### "MB" Series Pumps – 85 GPM – 6"



▲ **Rated Flow at Best Efficiency**

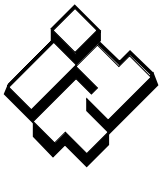
"MB" Series, 85 GPM

RPM 3450

Guaranteed as minimum performance only if certified.

**Minimum Well Size: 6" I.D.**

Note: Continuous operation outside operating range will void warranty.



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Red Jacket Water Products
Residential Water Systems

HB Series Pumps – 140 GPM – 6"

PERFORMANCE

The pump and motor of the HB Series are most efficient at 140 GPM. This should be considered when selecting the desired model. Performances shown do not include drop pipe friction.

HB SERIES, 140 GPM, PERFORMANCE TABLE (Recommended Operating Ranges)

Table with columns: Capacity in Gallons per Minute Against Discharge Pressures Shown (0 PSI, 20 PSI, 40 PSI, 60 PSI) and rows: Depth to Water Level in Feet (40 to 1300).

HB SERIES, 140 GPM, SPECIFICATIONS

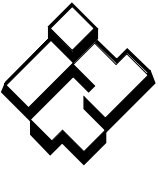
Table with columns: Water End, Required HP, No. of Stages, Pump Length, Pump Weight. Rows include models 2HB6-4 through 20HB6.

Notes: All HB Series pumps have 5 3/4" maximum O.D.

All HB Series pumps have discharge head tapped 3" NPT.

Important: Check valve not furnished.

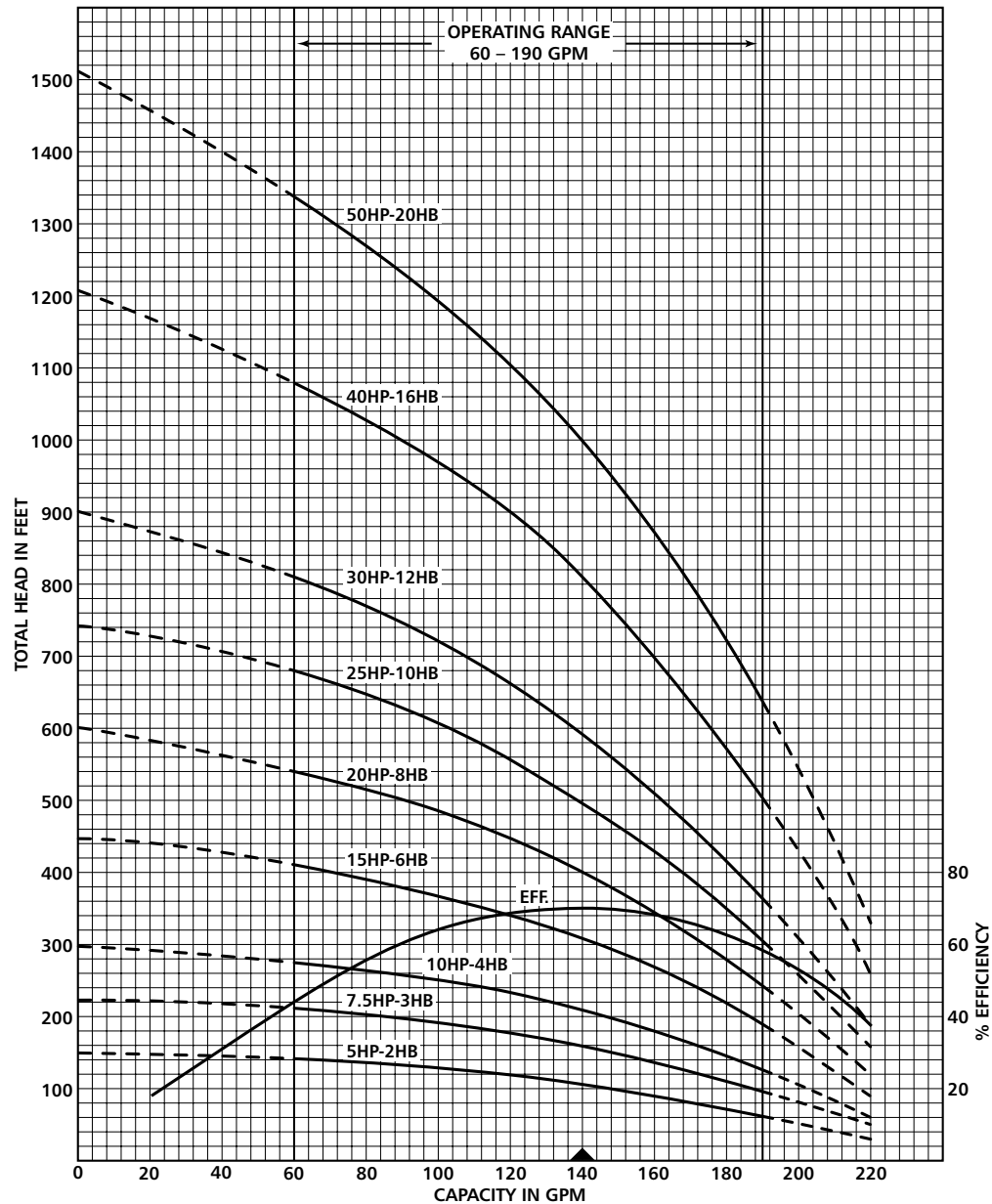
Minimum Well Size: 6" I.D.



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## Red Jacket Water Products Residential Water Systems

### "HB" Series Pumps – 140 GPM – 6"



▲ **Rated Flow at Best Efficiency**

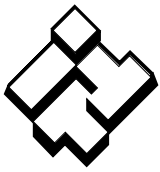
"HB" Series, 140 GPM

RPM 3450

Guaranteed as minimum performance only if certified.

**Minimum Well Size: 6" I.D.**

Note: Continuous operation outside operating range will void warranty.



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**Red Jacket Water Products**  
Residential Water Systems

**“PB” Series Pumps – 225 GPM – 6”**

**PERFORMANCE**

The pump and motor of the “PB” Series are most efficient at 225 GPM. This should be considered when selecting the desired model. Performances shown do not include drop pipe friction.

**“PB” SERIES, 225 GPM, PERFORMANCE TABLE (Recommended Operating Ranges)**

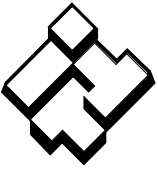
		Capacity in Gallons per Minute Against Discharge Pressures Shown																															
		0 PSI					20 PSI					40 PSI					60 PSI																
Pump No.	HP	1PB	2PB	3PB	4PB	5PB	6PB	8PB	10PB	1PB	2PB	3PB	4PB	5PB	6PB	8PB	10PB	1PB	2PB	3PB	4PB	5PB	6PB	8PB	10PB	1PB	2PB	3PB	4PB	5PB	6PB	8PB	10PB
		40	270										285								175	290								240	290		
80	100	295								200	295								240	285							175	255	295				
120		260	300								250	295							175	255	295							215	270	290			
160			260	300							180	260	295						220	260	290							150	240	260			
200			200	265							225	275	295						150	240	260	295						200	250	290			
240				230	288	295					170	240	275							200	250	285						150	225	275			
280				175	258	275						210	255	295					150	225	275							190	260	295			
320					215	265	295					165	230	280						190	260								125	245	285		
360					170	235	280						200	265	300					120	245									225	275		
400						200	265	300					145	250	290						235									200	260		
440						150	250	290						230	280						210									170	245		
480							230	275						205	265						185									120	230		
520							210	265						180	250						160										210		
560							180	250						135	235						110										185		
600							140	235							215																155		
640								215							190																110		
680								195							165																		
720								165							125																		
760								130																									

**“PB” SERIES, 225 GPM, SPECIFICATIONS**

Water End	Required HP	No. of Stages	Pump Length	Pump Weight
1PB6-4	5 (4")	1	14.8"	22
2PB6	10	2	19.1"	33
3PB6	15	3	23.4"	38
4PB6	20	4	27.8"	44
5PB6	25	5	32.1"	48
6PB6	30	6	36.4"	57
10PB6	50	10	53.6"	77

**Notes:**  
All “PB” Series pumps have 5¾" maximum “O.D.”  
All “PB” Series pumps have discharge head tapped 3" NPT.  
**Important:**  
Check valve not furnished.  
**Minimum Well Size:**  
6" I.D.

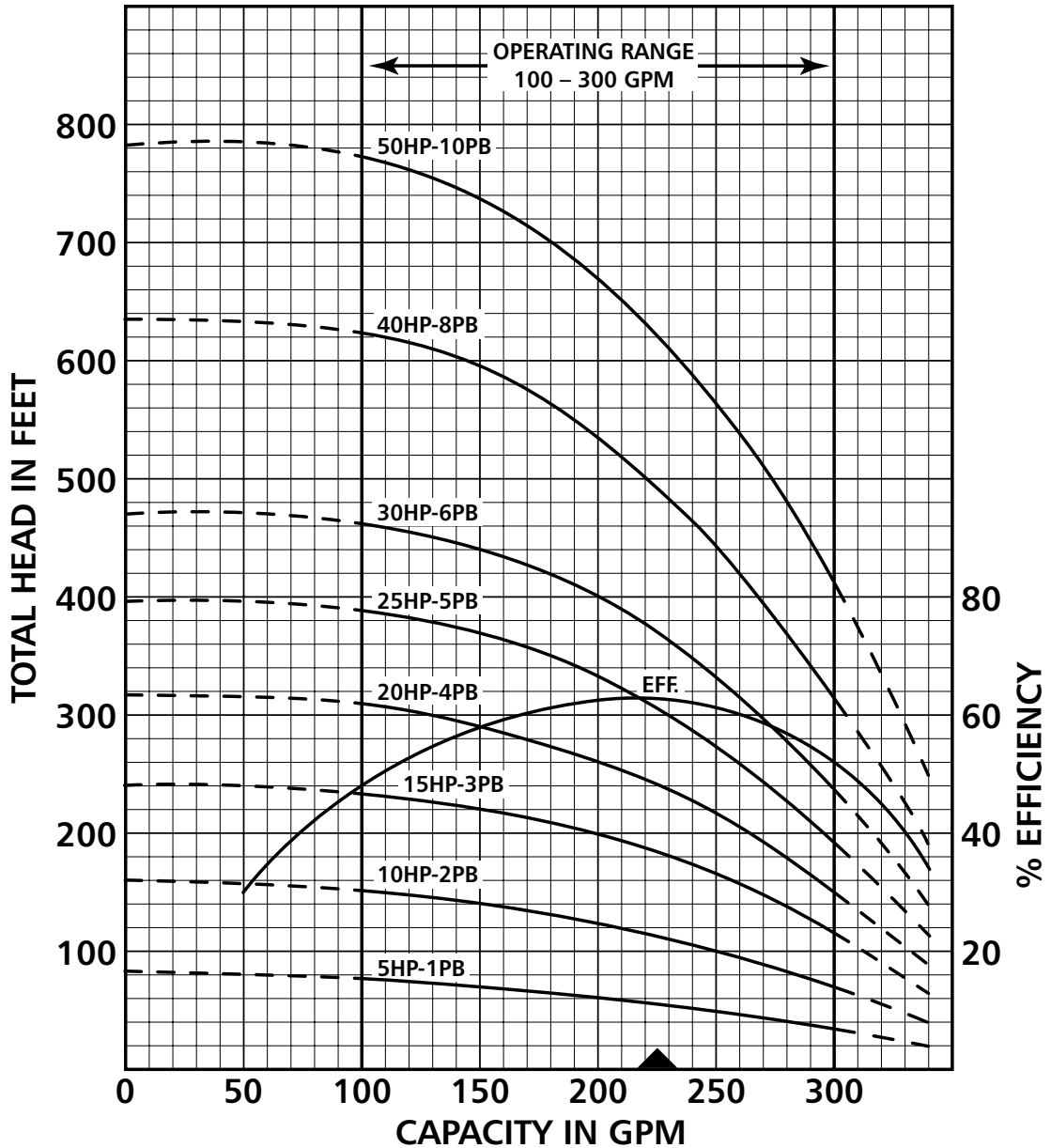




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## Red Jacket Water Products Residential Water Systems

### "PB" Series Pumps – 225 GPM – 6"



▲ **Rated Flow at Best Efficiency**

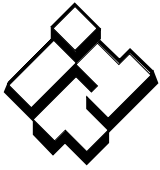
"PB" Series, 225 GPM

RPM 3450

Guaranteed as minimum performance only if certified.

**Minimum Well Size: 6" I.D.**

Note: Continuous operation outside operating range will void warranty.

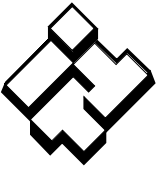


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Residential Water Systems

**6" BIG-FLO MOTOR CHART**

CentriPro					
Single Phase Motors - Dimensions and Weights					
Motor Order No.	HP	Motor Dia.	Volts	Length (inches)	Weight (lbs)
200C311	2	4"	230	15.1	31
300C311	3			18.3	40
500C311	5			27.7	70
6M071	7.5	6"	230	29.9	128
6M101	10			33.5	148
6M151	15				
Three Phase Motors - Dimensions and Weights					
Motor Order No.	HP	Motor Dia.	Volts	Length (inches)	Weight (lbs)
200C313	2	4"	230	13.8	28
300C313	3			15.3	32
500C313	5			21.7	55
200C353	2		460	13.8	28
300C353	3			15.3	32
500C353	5			21.7	55
6M078	7.5	6"	200	24.8	99
6M072			230		
6M074			460		
6M108	10		200	27.0	110
6M102			230		
6M104			460		
6M158	15		200	29.9	128
6M152			230		
6M154			460		
6M208	20		200	31.5	137
6M202			230		
6M204			460		
6M258	25		200	36.2	161
6M252			230		
6M254			460		
6M308	30		200	38.2	176
6M302			230		
6M304			460		
6M404	40		460	40.6	187
66M504	50		460	41.7	198

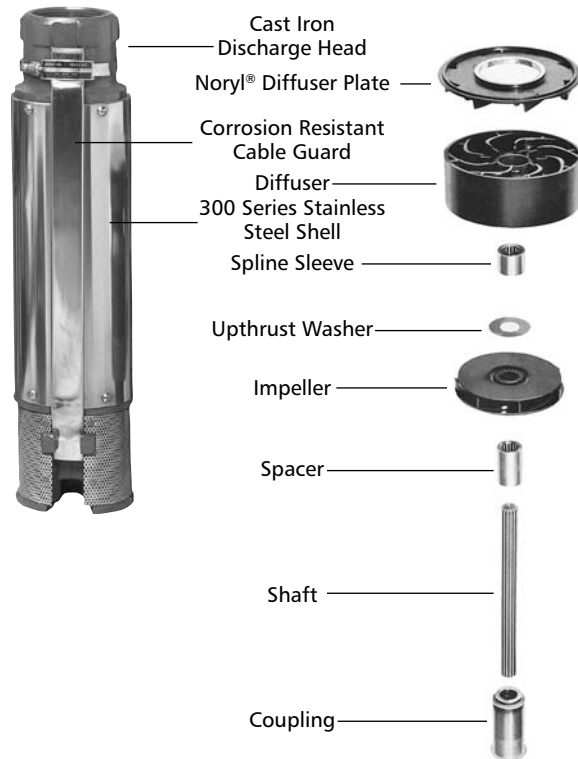


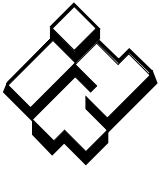
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## Red Jacket Water Products Residential Water Systems

### TYPICAL COMPONENTS – 6" SUBMERSIBLE

**HB/LB/MB/PB Pumps**  
*55 through 225 GPM*





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**Residential Water Systems**



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**BRJ6BFLO December, 2008**

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