



Customer Service
800.789.1718

BC/BP-Series Centrifugal Pump



Designed for conveying low viscosity fluids in a broad range of applications such as dairy, food, beverage, wine, and brewing markets.

Certifications

- 3A approved
- Elastomers meet FDA 21CFR 177.2600 and 3A 18-03 Class I

Sizes

- 1-1/2" - 4" x 1-1/2" - 6" inlet

Features

- Seal options: externally balanced 'D' seal, 'DG' seal with clamped in seat, or externally balanced 'F' flush seal
- Seal design
 - Robust single mechanical seal design with multiple material options
- Shaft design
 - BP sealed impeller with nut provides optimal hygienic performance while the split shaft compression collar improves shaft concentricity, reduces vibration, and improves seal life
 - BC design utilizes an impeller retainer; some BC models have a split shaft design available
- Drop-in replacement for other C-series pumps
- Wet end mounts to a standard NEMA C-face frame motor

Materials

- Product contact components: AISI 316L, FKM, silicone, EPDM, PTFE
- Non-product contact components: AISI 304
- Product contact seals: 316L, carbon, silicon carbide, tungsten carbide, and ceramic

Specifications

- Standard connection: clamp
- Minimum operating temperature: **32°F (0°C)**
- Maximum operating temperature: **212°F (100°C)**
- Viscosity range: 1-500 cP
- Surface Finish
 - Product contact metal components: ≤ 32 Ra
 - Non-product contact metal components: ≤ 63 Ra
- Seal type: single mechanical
- Performance characteristics
 - Nominal capacity: up to **1200 GPM**
 - Nominal speed: up to 3500 RPM - 60 Hz
- Motors and mounting
 - Motor frame size: NEMA C-face
 - Speeds: 1750 and 3450 RPM
 - Enclosure: TENV or TEFC, stainless steel or epoxy white washdown
- Cleaning method
 - CIP: clean-in-place



BC/BP-Series Centrifugal Pump – Part Number Key

BC/BP-Series Centrifugal Pump Part Number Key Example: BC114M101BAJA01		Series	Model	Connection	Seal Type	Impeller	Elastomer	Frame	Motor Type	Motor Electrical	HP RPM
		BC	114	M	1	01	B	A	J	A	01
Series	Code										
BC - impeller retainer	BC										
BP - threaded impeller nut	BP										
Model	Code										
1-1/2" inlet x 1-1/2" outlet	114										
2" inlet x 1-1/2" outlet	214										
2" inlet x 1-1/2" outlet	216										
2-1/2" inlet x 1-1/2" outlet	516										
2" inlet x 1-1/2" outlet	218										
3" inlet x 1-1/2" outlet	318										
3" inlet x 2" outlet	328										
4" inlet x 2" outlet	428										
4" inlet x 4" outlet ¹	441										
6" inlet x 4" outlet ¹	641										
Connection	Code										
Clamp (standard)	M										
Weld	B										
Seal Type	Code										
D type - carbon vs stainless steel	1										
DG C/SC - carbon vs silicon carbide	2										
DG C/CER - carbon vs ceramic	3										
DG C/TC - carbon vs tungsten carbide	4										
D type C/F - carbon vs stainless steel with cascade	5										
DG SC/SC - silicon carbide vs silicon carbide	6										
DG C/SC/F - carbon vs silicon carbide with cascade flush	7										
Impeller	Code										
2-1/2"	01										
2-3/4"	02										
3"	03										
3-1/4"	04										
3-1/2"	05										
3-3/4"	06										
4"	07										
4-1/4"	08										
4-1/2"	09										
4-3/4"	10										
5"	11										
5-1/4"	12										
5-1/2"	13										
5-3/4"	14										
6"	15										
6-1/4"	16										
6-1/2"	17										
6-3/4"	18										

¹Only available as a BP with DG seal.

BC/BP-Series Centrifugal Pump – Part Number Key

BC/BP-Series Centrifugal Pump Part Number Key Example: BC114M101BAJA01		Series	Model	Connection	Seal Type	Impeller	Elastomer	Frame	Motor Type	Motor Electrical	HP RPM
		BC	114	M	1	01	B	A	J	A	01
7"	19										
7-1/4"	20										
7-1/2"	21										
7-3/4"	22										
8"	23										
8-1/4"	70										
8-1/2"	71										
8-3/4"	72										
9"	73										
9-1/4"	74										
9-3/4"	76										
10"	77										
Elastomer	Code										
Nitrile rubber ²	B										
EPDM	E										
Silicone/EPDM	S										
FKM	V										
Frame	Code										
56C	A										
143/145TC	B										
182/184TC	C										
213/215TC	D										
254/256TC	E										
284/286TS (1.625" bore diameter)	F										
284/286TC (1.875" bore diameter)	H										
324/326TSC	G										
Stop here for fluid end.											
Motor Type	Code										
Baldor® stainless steel wash down	J										
Baldor® white wash down	Z										
Sterling stainless steel wash down	S										
Sterling painted wash down	W										
Baldor® general purpose	M										
Baldor® explosion proof CL1, DV1 GP D Class II GP F and G	E										
Brook Crompton® CL1 DV 2 GP A, B, C, and D cast iron wash down	3										
Worldwide electric stainless steel wash down	4										
Baldor® food safe stainless steel wash down	F										
WEG® shark stainless steel wash down	G										
Baldor® explosion proof CL1, DV 2, GP A, B, C, and D cast iron	H										
Motor Electrical	Code										
1PH, 60HZ, 115/230V	A										
3PH, 60HZ, 208-230/460V	B										
3PH, 60HZ, 575V	C										
3PH, 50HZ, 190/380V	D										

²BP models 441 and 641 nitrile rubber elastomer comes supplied with static FKM impeller nut O-ring seals (P25A).

²BP models 441 and 641 nitrile rubber elastomer comes supplied with static FKM impeller nut O-ring seals (P25A).

BC/BP-Series Centrifugal Pump – Part Number Key

BC/BP-Series Centrifugal Pump Part Number Key Example: BC114M101BAJA01		Series	Model	Connection	Seal Type	Impeller	Elastomer	Frame	Motor Type	Motor Electrical	HP RPM
		BC	114	M	1	01	B	A	J	A	01
3PH, 50HZ, 380/460V	E										
3PH, 50HZ, 220/380/440V	F										
3PH, 50HZ, 220/380/415V	G										
HP RPM	Code										
0.33HP - 1750RPM	01										
0.50HP - 1750RPM	02										
0.75HP - 1750RPM	03										
1.0HP - 1750RPM	04										
1.5HP - 1750RPM	05										
2.0HP - 1750RPM	06										
3.0HP - 1750RPM	07										
5.0HP - 1750RPM	08										
7.5HP - 1750RPM	09										
10HP - 1750RPM	10										
15HP - 1750RPM	11										
20HP - 1750RPM	12										
25HP - 1750RPM	13										
30HP - 1750RPM	14										
40HP - 1750RPM	15										
50HP - 1750RPM	16										
60HP - 1750RPM	17										
0.33HP - 3500RPM	18										
0.50HP - 3500RPM	19										
0.75HP - 3500RPM	20										
1.0HP - 3500RPM	21										
1.5HP - 3500RPM	22										
2.0HP - 3500RPM	23										
3.0HP - 3500RPM	24										
5.0HP - 3500RPM	25										
7.5HP - 3500RPM	26										
10HP - 3500RPM	27										
15HP - 3500RPM	28										
20HP - 3500RPM	29										
25HP - 3500RPM	30										
30HP - 3500RPM	31										
40HP - 3500RPM	32										
50HP - 3500RPM	33										
60HP - 3500RPM	34										
2HP - 1200RPM	35										

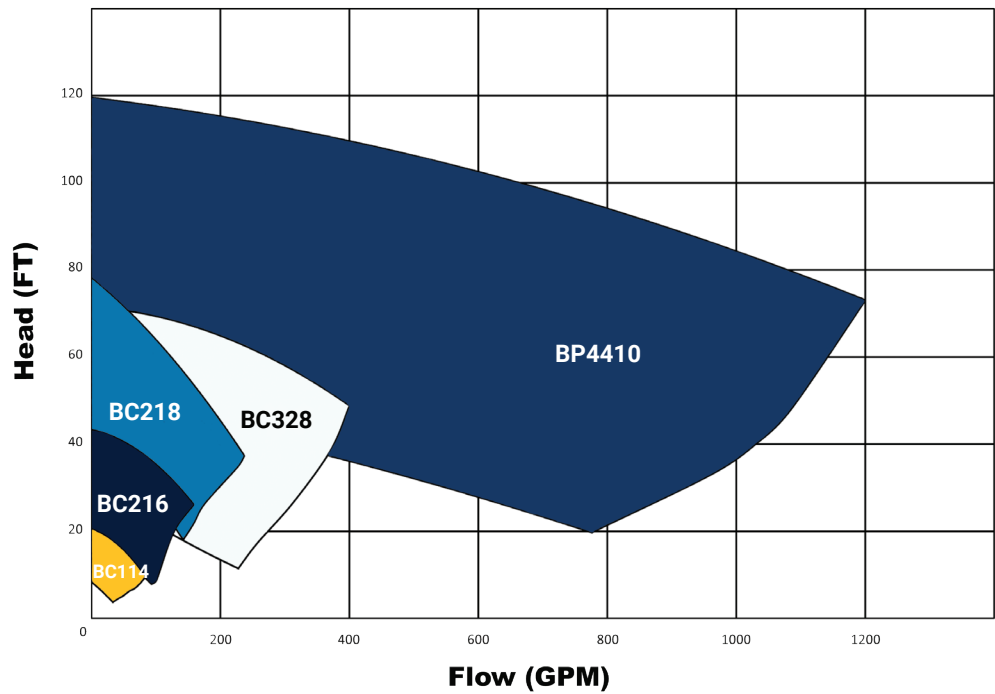
NOTE: BP models 114-428 are manufactured to 3A standards but do not carry a 3A certificate. BP model 441 and 641 do carry the 3A certificate.

Fluid end includes all parts required to assemble to your motor.

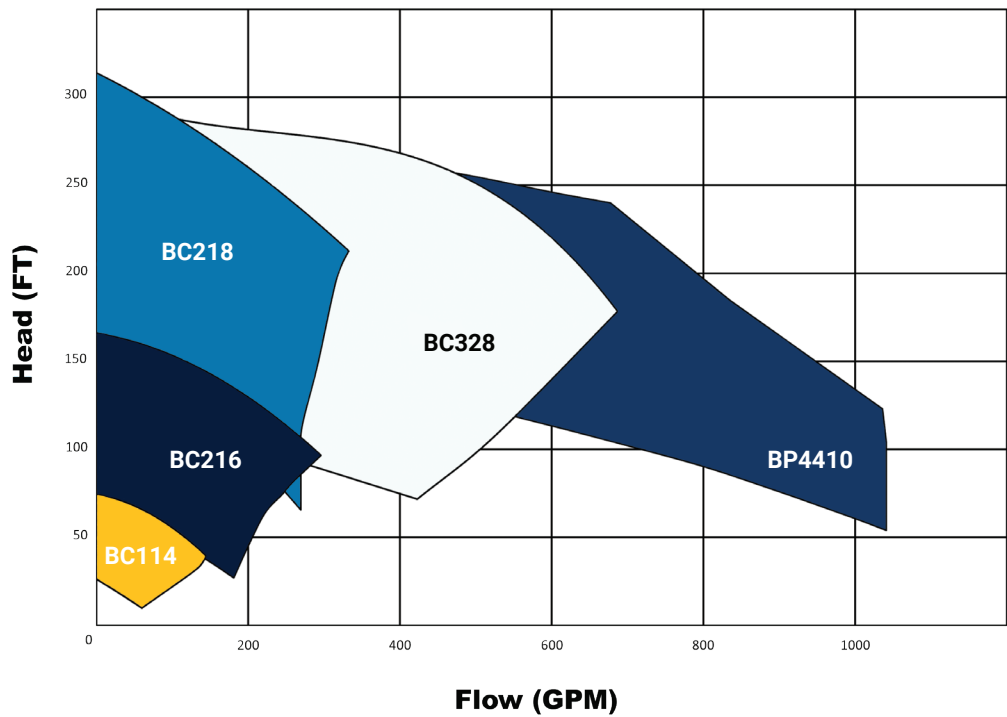
Specify adjustable leg kits at time of order. Leg kits will be shipped to match the frame size of motor as specified by model number. Leg kits will not be assembled. If there are options that are not listed above, please contact Dixon® at 800.789.1718 for availability and pricing.

BC/BP-Series Centrifugal Pump – Pump Curves

1750 RPM



3500 RPM



BC/BP-Series Centrifugal Pump – Pump Curves

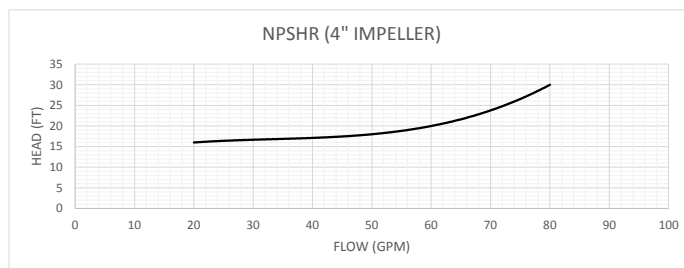
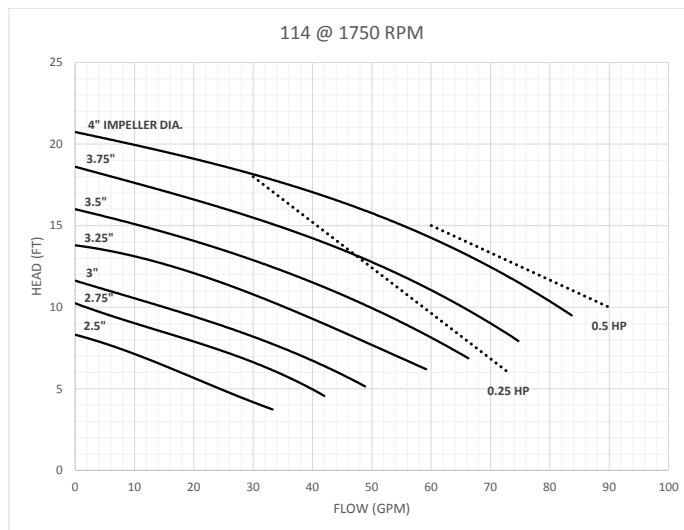
BC/BP 114

Based on H₂O at 70°F (21°C)

Frequency: 60 HZ

RPM: 1750

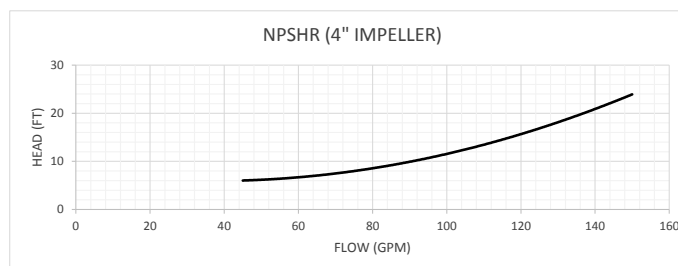
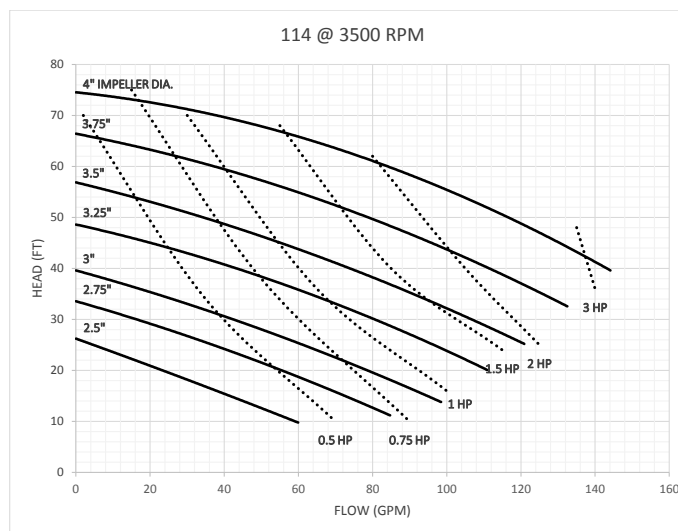
Size: 1-1/2" x 1-1/2" x 4"

Based on H₂O at 70°F (21°C)

Frequency: 60 HZ

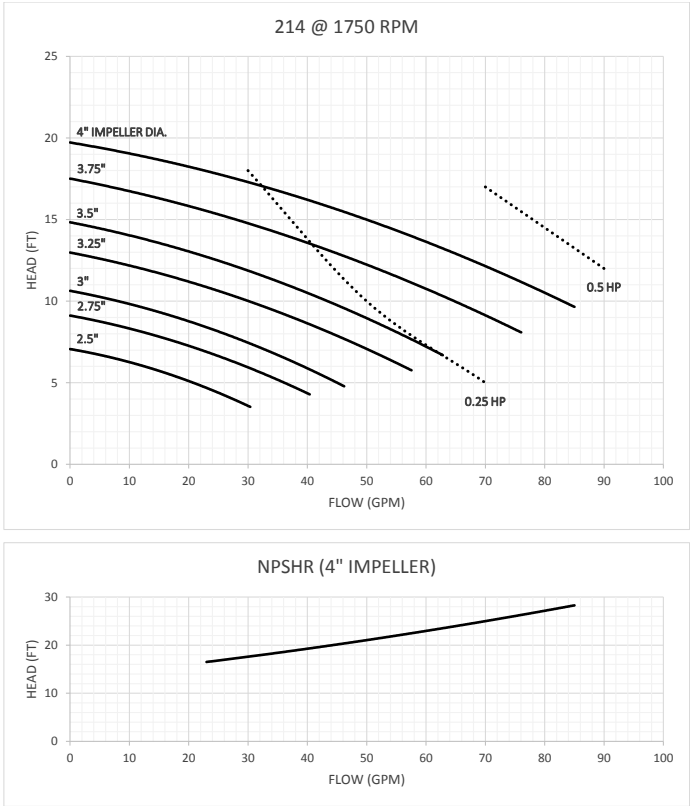
RPM: 3500

Size: 1-1/2" x 1-1/2" x 4"

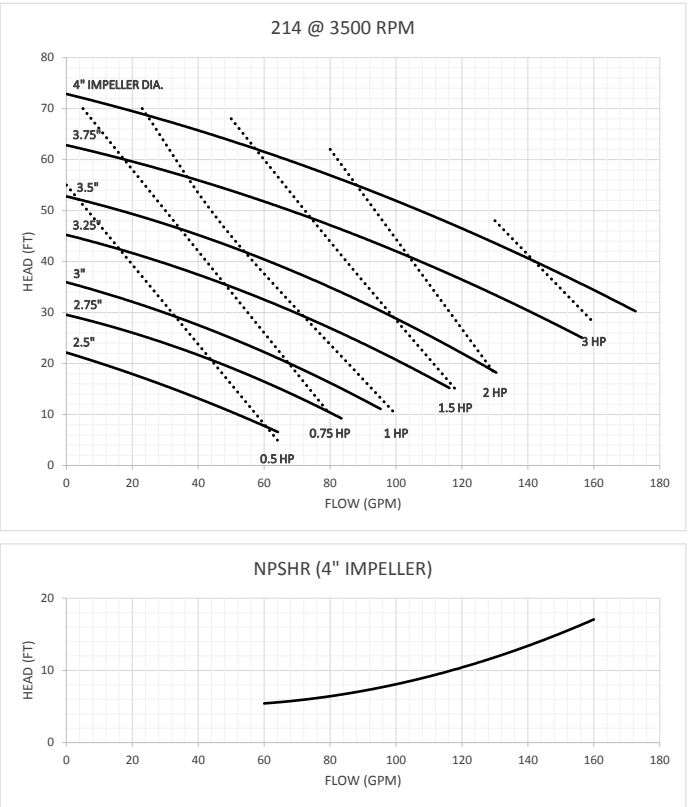


BC/BP-Series Centrifugal Pump – Pump Curves
BC/BP 214

Based on H₂O at 70°F (21°C)
Frequency: 60 HZ
RPM: 1750
Size: 2" x 1-1/5" x 4"



Based on H₂O at 70°F (21°C)
Frequency: 60 HZ
RPM: 3500
Size: 2" x 1-1/2" x 4"



BC/BP-Series Centrifugal Pump – Pump Curves

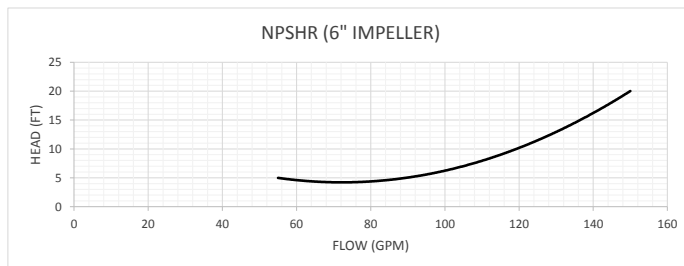
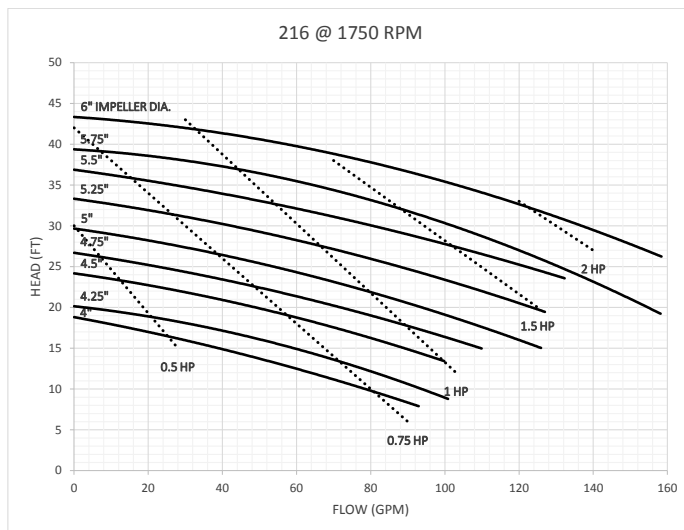
BC/BP 216

Based on H₂O at 70°F (21°C)

Frequency: 60 HZ

RPM: 1750

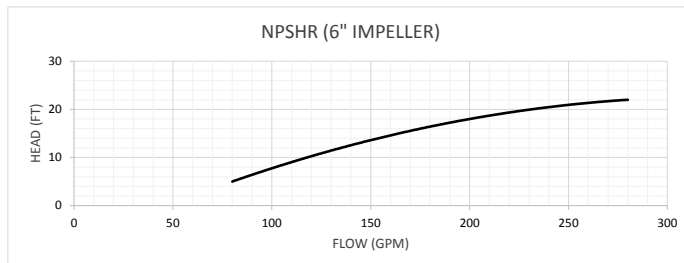
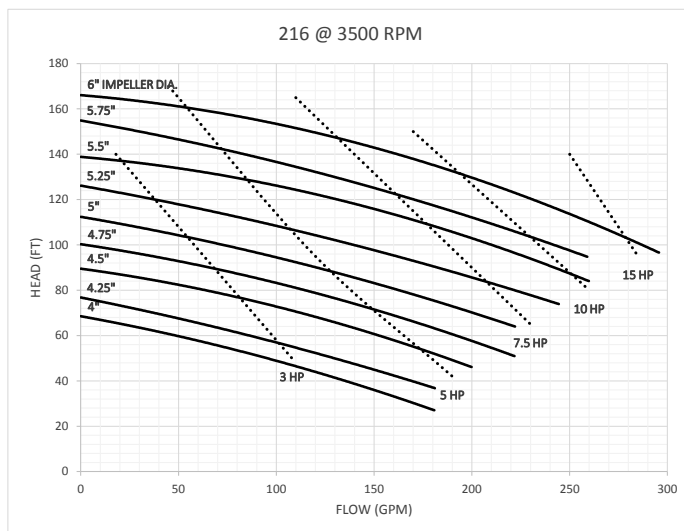
Size: 2" x 1-1/2" x 6"

Based on H₂O at 70°F (21°C)

Frequency: 60 HZ

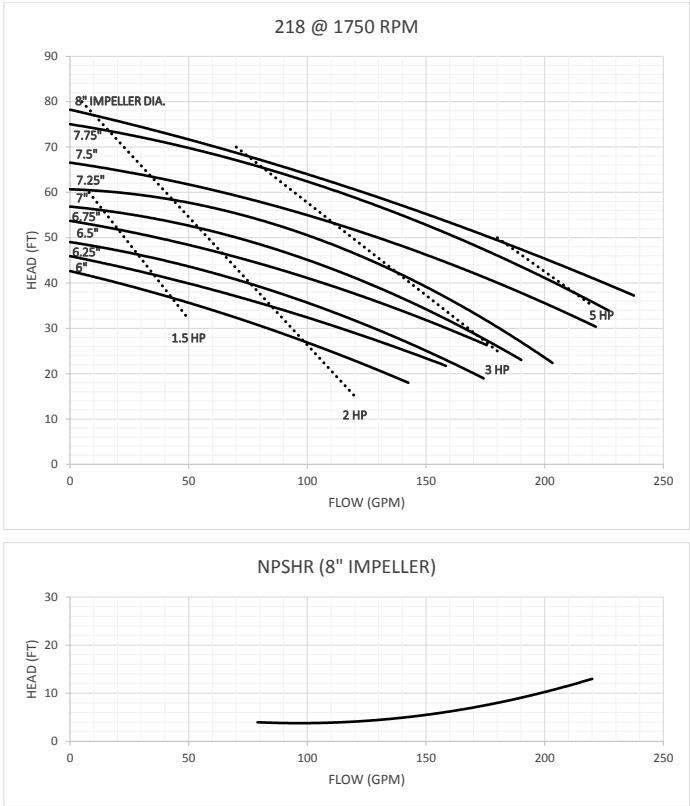
RPM: 3500

Size: 2" x 1-1/2" x 6"

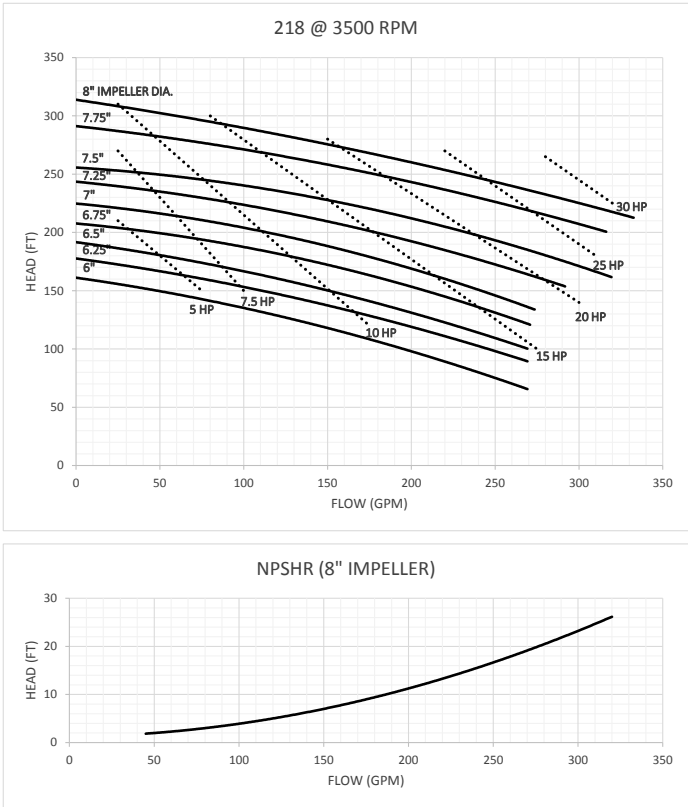


BC/BP-Series Centrifugal Pump – Pump Curves
BC/BP 218

Based on H₂O at 70°F (21°C)
Frequency: 60 HZ
RPM: 1750
Size: 2" x 1" x 8"



Based on H₂O at 70°F (21°C)
Frequency: 60 HZ
RPM: 3500
Size: 2" x 1" x 8"



BC/BP-Series Centrifugal Pump – Pump Curves

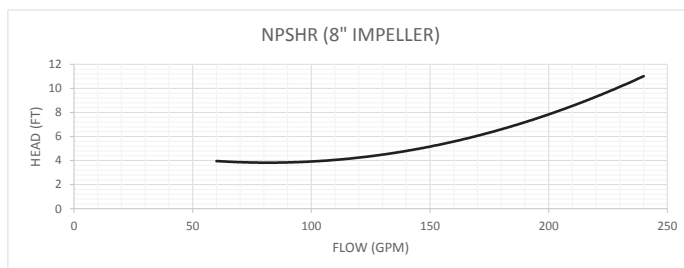
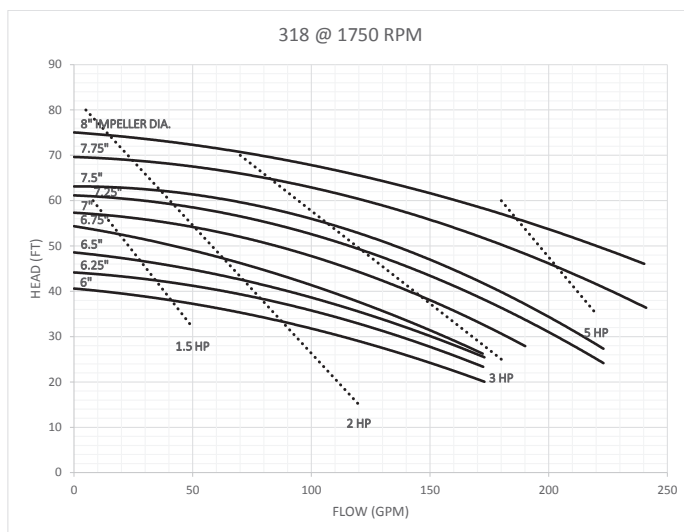
BC/BP 318

Based on H₂O at 70°F (21°C)

Frequency: 60 HZ

RPM: 1750

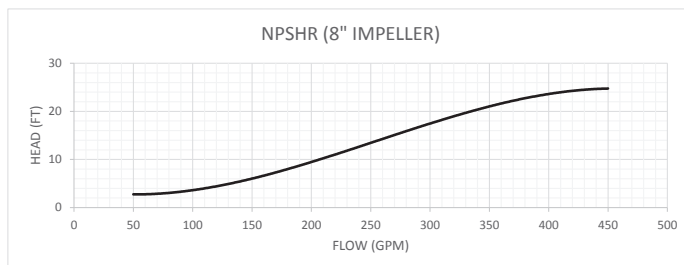
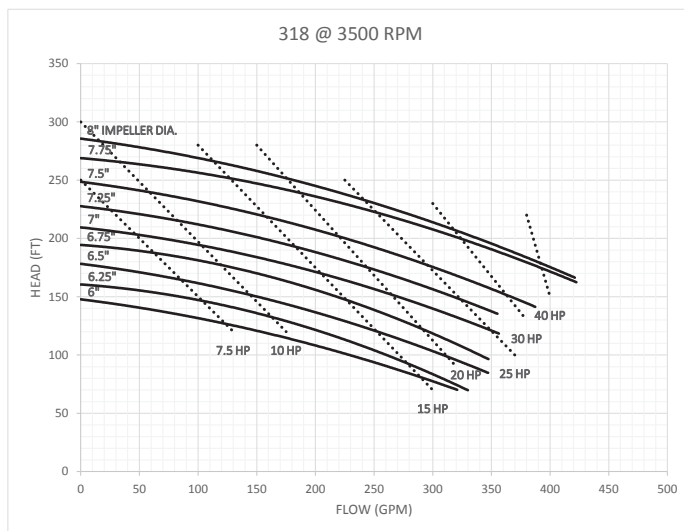
Size: 3" x 1-1/2" x 8"

Based on H₂O at 70°F (21°C)

Frequency: 60 HZ

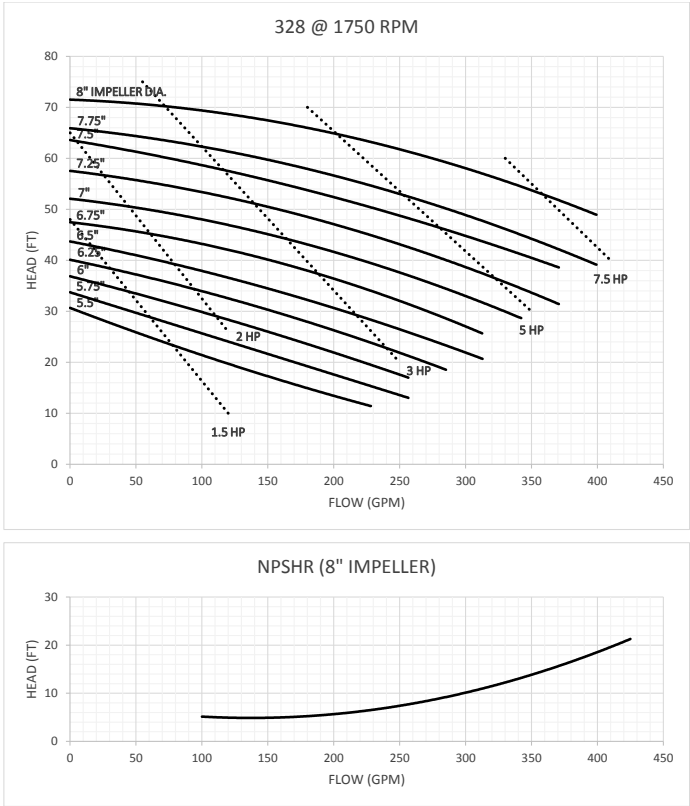
RPM: 3500

Size: 3" x 1-1/2" x 8"

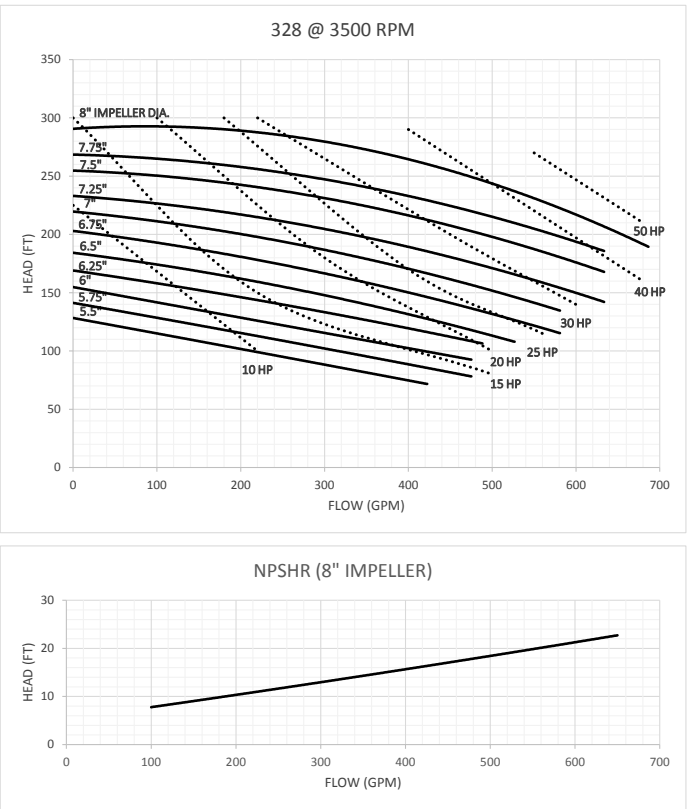


BC/BP-Series Centrifugal Pump – Pump Curves
BC/BP 328

Based on H₂O at 70°F (21°C)
Frequency: 60 HZ
RPM: 1750
Size: 3" x 2" x 8"



Based on H₂O at 70°F (21°C)
Frequency: 60 HZ
RPM: 3500
Size: 3" x 2" x 8"



BC/BP-Series Centrifugal Pump – Pump Curves

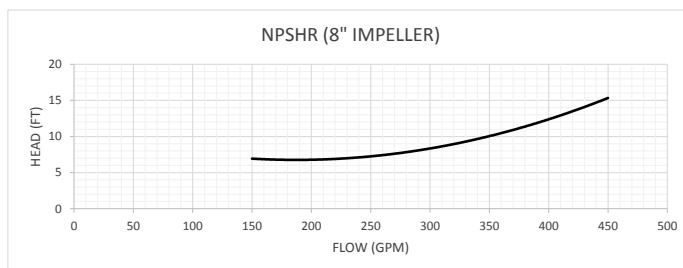
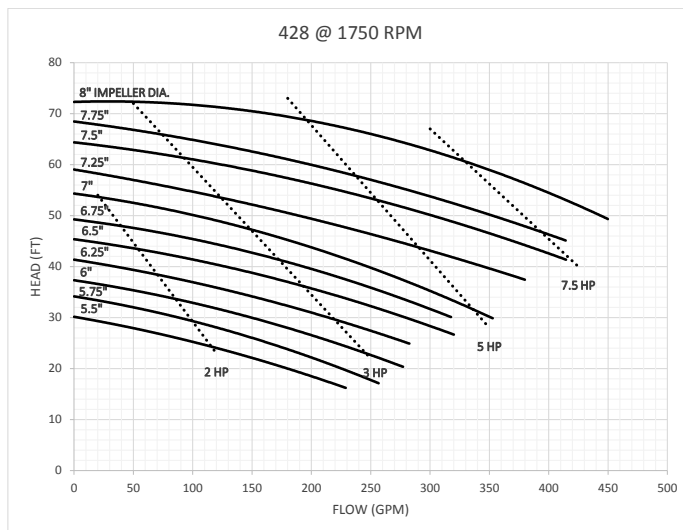
BC/BP 428

Based on H₂O at 70°F (21°C)

Frequency: 60 HZ

RPM: 1750

Size: 4" x 2" x 8"

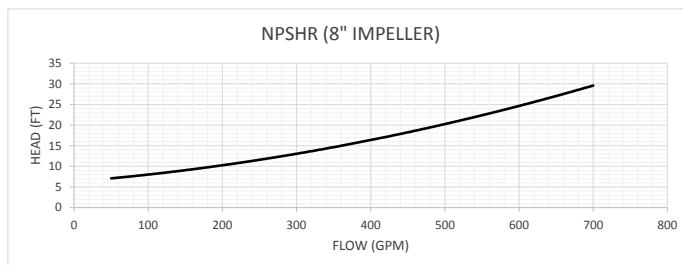
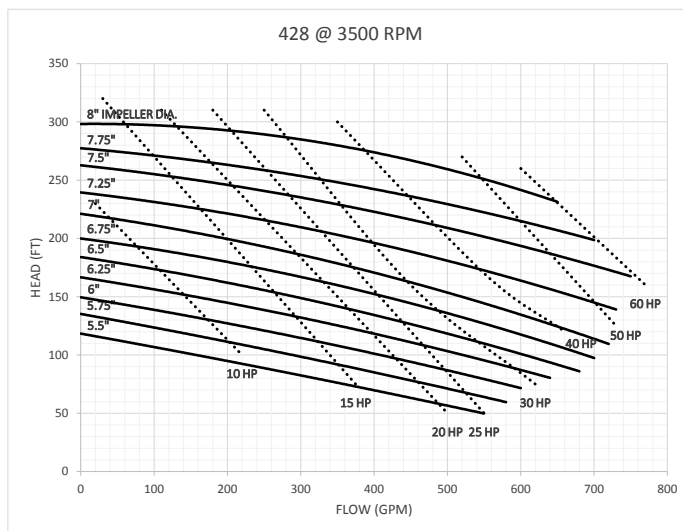


Based on H₂O at 70°F (21°C)

Frequency: 60 HZ

RPM: 3500

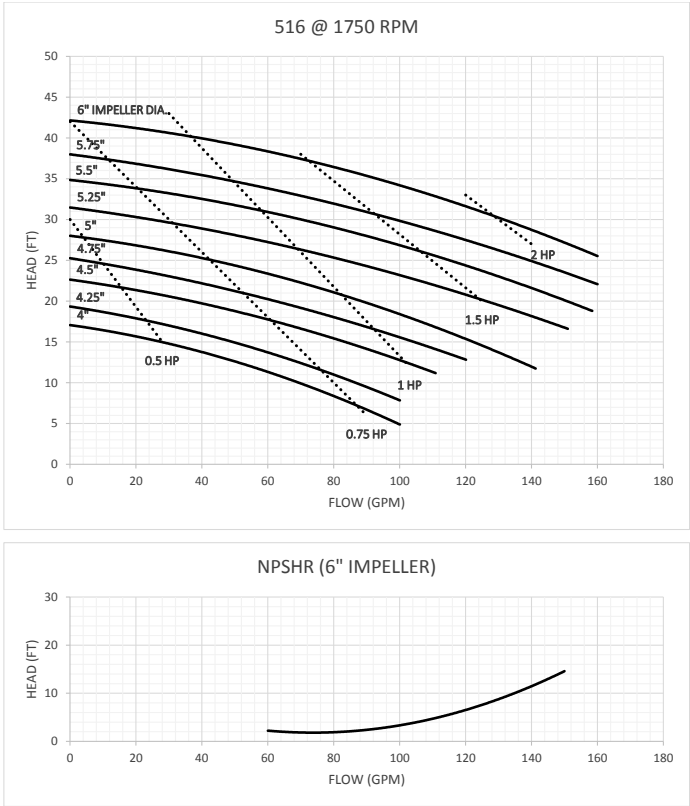
Size: 4" x 2" x 8"



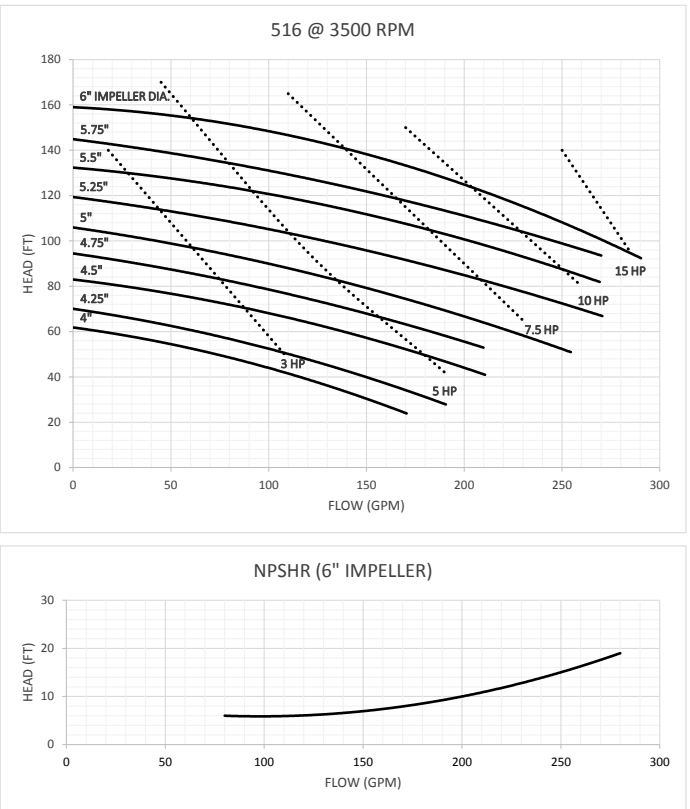
BC/BP-Series Centrifugal Pump – Pump Curves

BC/BP 516

Based on H₂O at 70°F (21°C)
Frequency: 60 HZ
RPM: 1750
Size: 2-1/2" x 1-1/2" x 6"



Based on H₂O at 70°F (21°C)
Frequency: 60 HZ
RPM: 3500
Size: 2-1/2" x 1-1/2" x 6"



BC/BP-Series Centrifugal Pump – Pump Curves

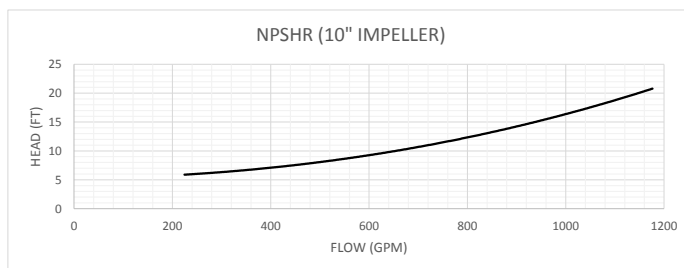
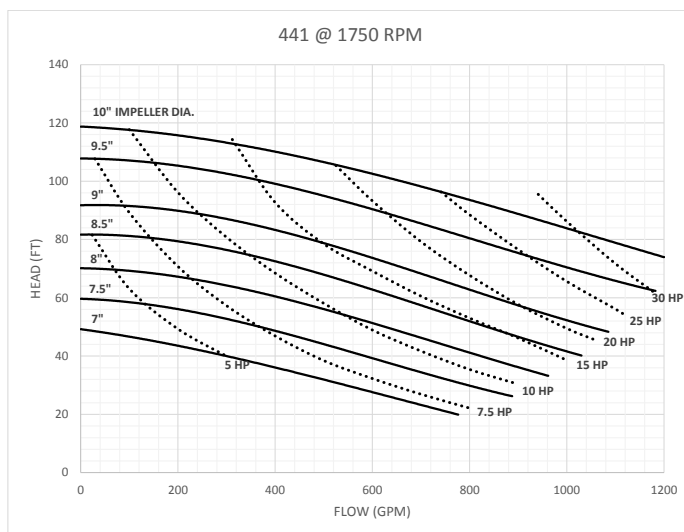
BP 441

Based on H₂O at 70°F (21°C)

Frequency: 60 HZ

RPM: 1750

Size: 4" x 4" x 8"

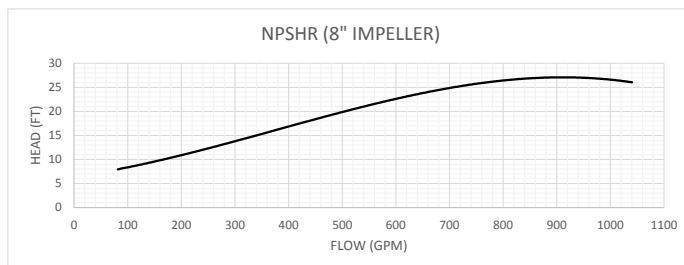
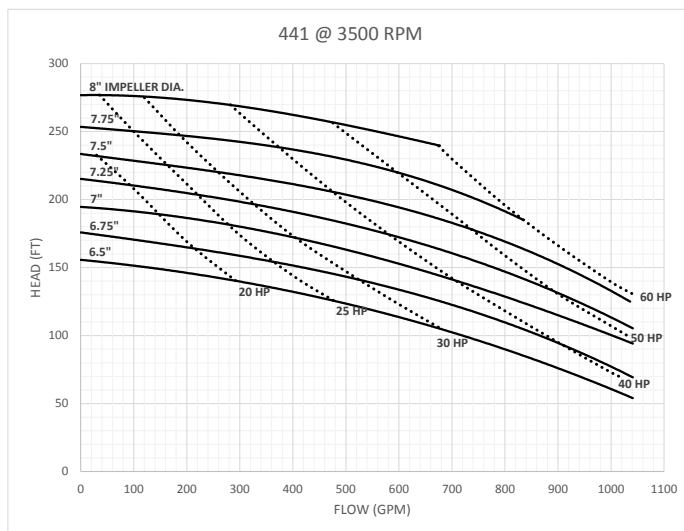


Based on H₂O at 70°F (21°C)

Frequency: 60 HZ

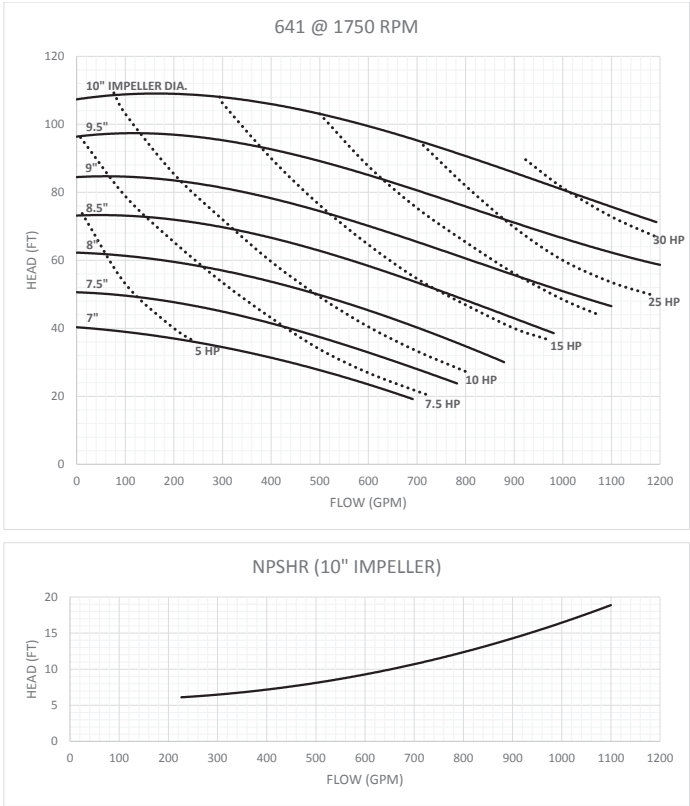
RPM: 3500

Size: 4" x 4" x 8"

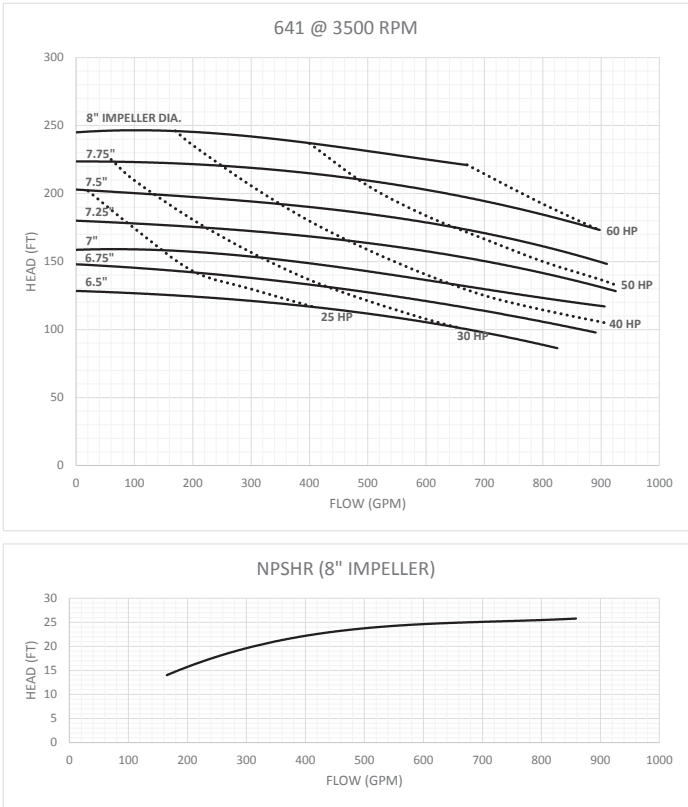


BC/BP-Series Centrifugal Pump – Pump Curves
BP 641

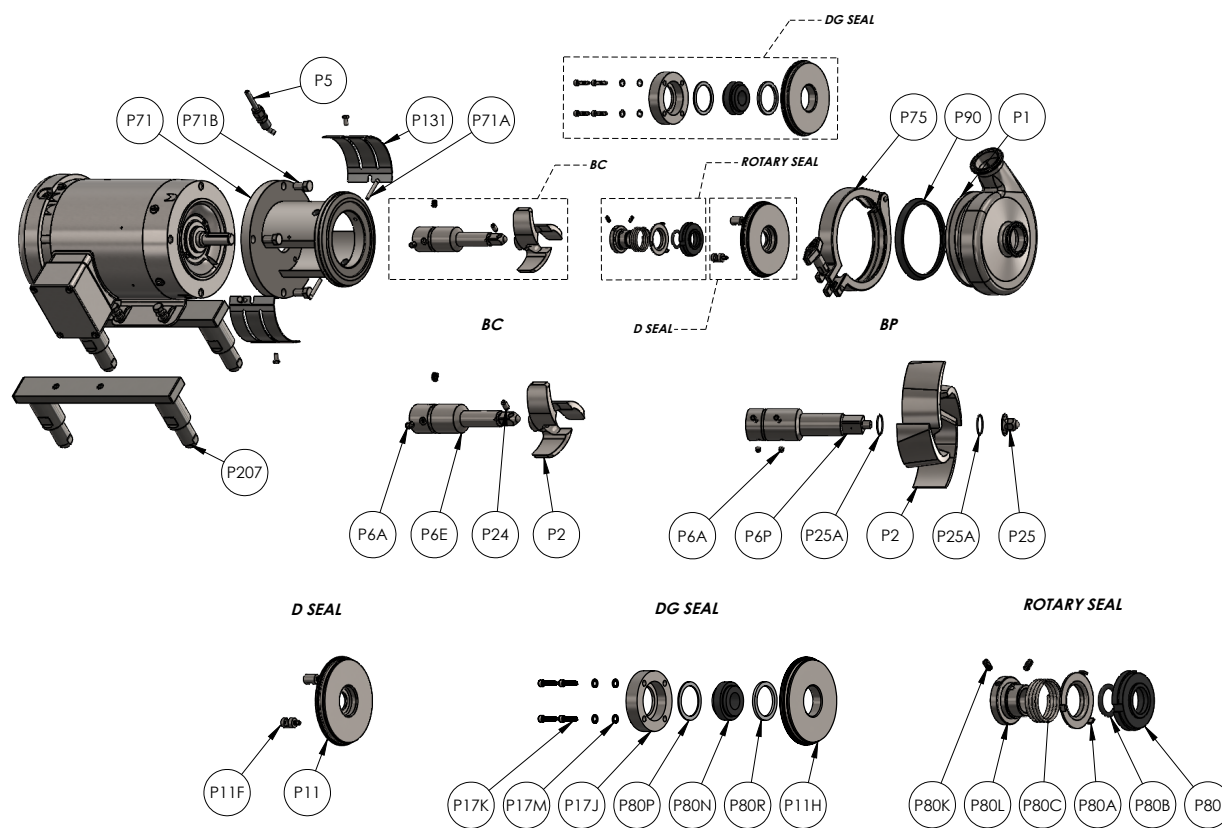
Based on H₂O at 70°F (21°C)
Frequency: 60 HZ
RPM: 1750
Size: 6" x 4" x 10"



Based on H₂O at 70°F (21°C)
Frequency: 60 HZ
RPM: 3500
Size: 6" x 4" x 10"



BC/BP-Series Centrifugal Pump – Bill of Materials



Item #	Description	Part #				
	Pump Model	114	216	218	328	441 ^{BP}
P1	casing	P1-114M	P1-216M	P1-218M	P1-328M	P1-441M
P1	enlarged inlet casing	P1-214M	P1-516M	P1-318M	P1-428M	P1-641M
P2	impeller ¹	P2-114-400	P2-216-600	P2-218-800	P2-328-800	P2-441-1000
P5	cascade seal fitting	P5-BCF-KIT				
P6A	stub shaft set screw	P6A-114SS	P6A-216BSS			P6A-441SS
P11	back plate ^D	P11-114DP	P11-216DP	P11-218BDP	---	
P11F	back plate latch	P11F-114BPP		P11F-218BPP	P11F-441PP	
P11H	back plate ^{DG}	P11H-114DGP	P11H-216DGP	P11H-218BDGP	P11H-441DGP	
P17J	gland ring ^{DG}	P17J-114GR	P17J-216GR	P17J-218BGR	P17J-441GR	
P17K	gland bolt ^{DG}	P17K-114BG	P217K-216BGB			P17K-441GB
P17M	washers ^{DG}	P17M-114GW	P17M-216BGW			P17M-441GW
P24	impeller retainer ^{BC}	P24-114R	P24-216R	P24-218BR	---	
P25	threaded impeller nut ^{BP}	P25-114NUT	P25-216NUT	P25-218BNUT	P25-441NUT	
P25A	nitrile rubber impeller O-ring ^{BP}	P25A-114NOB	P25A-216NOB	P25A-218BNOB	---	
	EPDM impeller O-ring ^{BP}	P25A-114NOE	P25A-216NOE	P25A-218BNOE	P25A-441NOE	
	FKM impeller O-ring ^{BP}	P25A-114NOV	P25A-216NOV	P25A-218BNOV	P25A-441NOV	
P71A	adapter pins	P71A-114BAP				---
P75	clamp assembly	P75-114CA	P75-216CA	P75-218BCA	P75-441CA	
P80	carbon seal	P80-114CS	P80-216CS	P80-218BCS	P80-441CS	
P80	silicon carbide seal	P80-114SC	P80-216SC	P80-218BSC	P80-441SC	
P80A	seal cup	P80A-114CP	P80A-216CP	P80A-218BCP	P80A-441CP	

BC/BP-Series Centrifugal Pump – Bill of Materials (cont.)

Item #	Description	Part #				
		114	216	218	328	441 ^{BP}
P80B	nitrile rubber seal O-ring	P80B-114SOB	P80B-216SOB	P80B-218BSOB		-
	EPDM seal O-ring	P80B-114SOE	P80B-216SOE	P80B-218BSOE		P80B-441SOE
	silicone seal O-ring	P80B-114SOS	P80B-216SOS	P80B-218BSOS		P80B-441SOS
	FKM seal O-ring	P80B-114SOV	P80B-216SOV	P80B-218BSOV		P80B-441SOV
P80C	spring	P80C-114SG	P80C-216SG	P80C-218BSG		P80C-441SG
P80K	drive collar set screw	P80K-114DCS	P80K-216BDCS			P80K-441DCS
P80L	drive collar	P80L-114DC	P80L-216DC	P80L-218BDC		P80L-441DC
P80N	silicon carbide seat ^{DG}	P80N-114SC	P80N-216SC	P80N-218BSC		P80N-441SC
	ceramic seat ^{DG}	P80N-114CER	P80N-216CER	P80N-218BCER		---
	tungsten carbide seat ^{DG}	P80N-114TC	P80N-216TC	P80N-218BTC		---
P80P	outboard gasket ^{DG}	P80P-114OG	P80P-216OG	P80P-218BOG		P80P-441OG
P80R	inboard gasket ^{DG}	P80R-114IG	P80R-216IG	P80R-218BIG		P80P-441IG
P90	nitrile rubber casing gaskets	P90-114CGB	P90-216CGB	P90-218BCGB		---
	EPDM casing gasket	P90-114CGE	P90-216CGE	P90-218BCGE		P90-441CGE
	silicone casing gasket	P90-114CGS	P90-216CGS	P90-218BCGS		P90-441CGS
	FKM casing gasket	P90-114CGV	P90-216CGV	P90-218BCGV		P90-441CGV

¹Part number is for maximum sized impeller^DAvailable for D-seal type only^{DG}Available for DG-seal type only^{BC}Available for BC-series only^{BP}Available for BP-series only

BC/BP-Series Centrifugal Pump – Bill of Materials – Variable Parts

BC/BP 114

Item #	Description	Part #		
		56C	140TC	180TC
P6E	stub shaft ^{BC}	P6E-114-56SH	P6E-114-14SH	P6E-114-18SH
P6P	stub shaft ^{BP}	P6P-114-56SH	P6P-114-14SH	P6P-114-18SH
P71	adapter	P71-114-56AN	P71-114-14AN	P71-114-18AN
P71B	adapter bolts	P71B-114B-56AB	P71B-114B-56AB	P71B-114B-18AB
P131	guard set	P131-114-56GAN	P131-114-56GAN	P131-114-18GAN

BC/BP 216

Item #	Description	Part #				
		56C	140TC	180TC	210TC	250TC
P6E	stub shaft ^{BC}	P6E-216-56SH	P6E-216-14SH	P6E-216-18SH	P6E-216-21SH	P6E-216-25SH
P6P	stub shaft ^{BP}	P6P-216-56SH	P6P-216-14SH	P6P-216-18SH	P6P-216-21SH	P6P-216-25SH
P71	adapter	P71-216-56AN	P71-216-14AN	P71-216-18AN	P71-216-21AN	P71-216-25AN
P71B	adapter bolts	P71B-114B-56AB	P71B-114B-56AB	P71B-114B-18AB	P71B-114B-18AB	P71B-114B-18AB
P131	guard set	P131-216-56GAN	P131-216-56GAN	P131-216-18GAN	P131-216-21GAN	P131-216-25GAN

BC/BP 218 BC/BP 328

Item #	Description	Part #				
		180TC	210TC	250TC	280TSC	320TSC
P6E	stub shaft ^{BC}	P6E-218B-18SH	P6E-218B-21SH	P6E-218B-25SH	P6E-218B-28SH	P6E-328-32SH
P6P	stub shaft ^{BP}	P6P-218B-18SH	P6P-218B-21SH	P6P-218B-25SH	P6P-218B-28SH	P6P-328-32SH
P71	adapter	P71-218B-18AN	P71-218B-21AN	P71-218B-25AN	P71-218B-28AN	P71-328-32AN
P71B	adapter bolts	P71B-114B-18AB	P71B-114B-18AB	P71B-114B-18AB	P71B-114B-18AB	P71B-328-32AB
P131	guard set	P131-218B-18GAN	P131-218B-21GAN	P131-218B-25GAN	P131-218B-28GAN	P131-218B-32GAN

BC/BP-Series Centrifugal Pump – Bill of Materials – Variable Parts

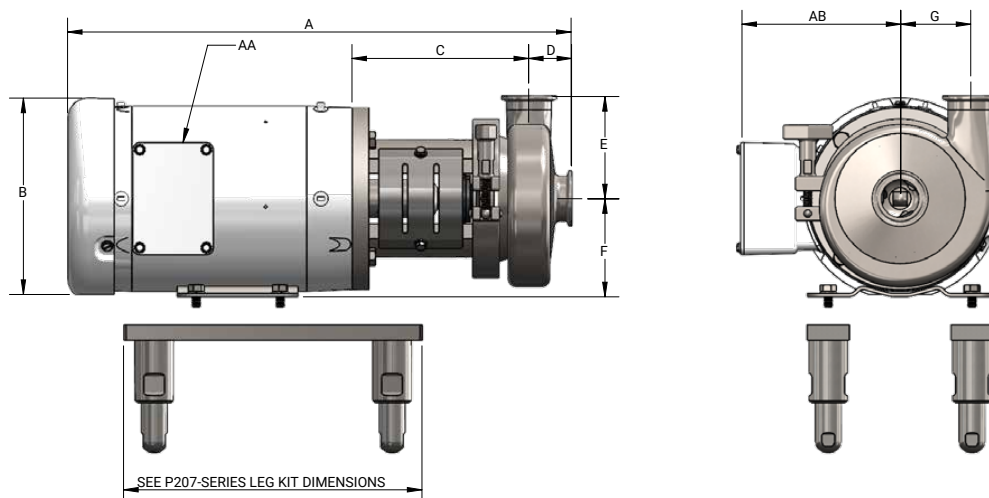
BP 441

Item #	Description	Part #			
		210TC	250TC	280TSC	320TSC
P6P	stub shaft ^{BP}	P6P-441-21SH	P6P-441-25SH	P6P-441-28SH	P6P-441-32TCSH
P71	adapter	P71-441B-21A	P71-441-25A	P71-441B-28A	P71B-441B-32A
P71B	adapter bolts	P71B-114B-18AB	P71B-114B-18AB	P71B-114B-18AB	P71B-441B-32AB
P131	guard set	P131-441-21GA	P131-441-25GA	P131-441-28GA	P131-441-32GA

^{BC}Available for BC-series only

^{BP}Available for BP-series only

BC/BP-Series Centrifugal Pump – Dimensions



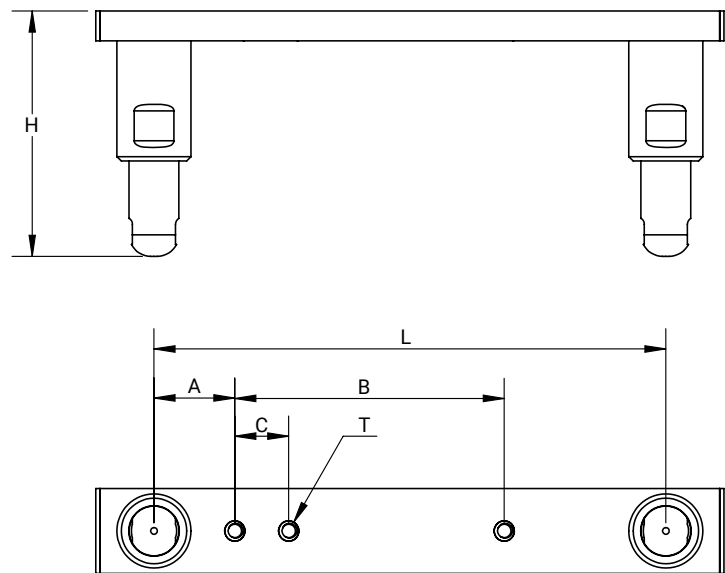
Pump Model	Frame Size	A (in)	AA (in) (conduit size)	AB (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)
BC/BP 114 BC/BP 214	56C	contact Dixon® for exact measurement ¹	0.50	5.00	6.63	6.22	1.63	3.63	3.50	2.63
	143/145TC		0.75	5.25					---	
	182/183TC		0.75	5.88					4.50	
BC/BP 216 BC/BP 516	56C		0.50	5.00	6.63	6.06	1.94	4.50	3.50	3.69
	143/145TC		0.75	5.25					---	
	182/183TC		0.75	5.88					4.50	
	213/215TC		1.00	7.38					5.25	
	254/256TC		1.00	9.63					6.25	
BC/BP 218 BC/BP 318 BC/BP 328 BC/BP 428	182/183TC		0.75	5.88	7.88	6.94	1.94 2.25 ²	5.50	4.50	4.75
	213/215TC		1.00	7.38					5.25	
	254/256TC		1.00	9.63					6.25	
	284/286TC		1.50	13.13					7.00	
	324/326TC		2.00	14.13					8.00	
BP 441 BP 641	213/215TC		1.00	7.38	9.56	10.52	3.25	7.35	5.25	7.60
	254/256TC		1.00	9.63					6.25	
	284/286TC		1.50	13.13					7.00	
	324/326TC		2.00	14.13					8.00	

¹Dimensions dependent on motor selection

²Dimension applies to BC/BP 328 and 428 only

BC/BP-Series Centrifugal Pump – Dimensions

Leg Kit – Optional



Frame Size	Part #	A (in)	B (in)	C (in)	H (in)		L (in)	T
					min	max		
56C	P207-56LK-N	1.50	3.00	---	4.60	5.00	10.50	5/16"-18 UNC
	P207-56LK-N-60				6.75	7.50		
140TC	P207-14LK-N		5.00	1.00	4.60	5.00	11.50	
	P207-14LK-N-60				6.75	7.50		
180TC	P207-18LK-N		5.50		4.60	5.00	12.63	3/8"-16 UNC
	P207-18LK-N-60				6.75	7.50		
210TC	P207-21LK-N		7.00	1.50	4.60	5.00	15.88	
	P207-21LK-N-60				6.75	7.50		
250TC	P207-25LK-N		10.00	1.75	4.60	5.00	20.00	1/2"-13 UNC
	P207-25LK-N-60				6.75	7.50		
280TSC	P207-28LK-N		11.00	1.50	4.60	5.00	21.00	
	P207-28LK-N-60				6.75	7.50		
320TSC	P207-32LK-N		12.00		4.60	5.00	22.50	
	P207-32LK-N-60				6.75	7.50		

BC/BP-Series Centrifugal Pump – Friction Loss Chart

Capacity in U.S. GPM	O.D. Tube Size																	
	1"			1-1/2"			2"			2-1/2"			3"			4"		
	I.D. = 0.870"			I.D. = 1.370"			I.D. = 1.870"			I.D. = 2.370"			I.D. = 2.870"			I.D. = 3.834"		
	Tube	Elbow	Tee	Tube	Elbow	Tee	Tube	Elbow	Tee	Tube	Elbow	Tee	Tube	Elbow	Tee	Tube	Elbow	Tee
5	.035	.025	.25															
10	.12	.06	.40	.02	.01	.15	.005	.015	.10									
15	.25	.10	.80	.04	.02	.25	.013	.02	.15									
20	.43	.22	1.5	.06	.03	.30	.02	.025	.20	.005	.02	.10	.003	.02	.06			
25	.66	.40	2.3	.08	.04	.40	.025	.03	.25	.006	.03	.15	.004	.03	.08			
30	.93	.70	3.3	.105	.55	.55	.035	.05	.30	.008	.05	.20	.005	.04	.10			
35	1.22	1.25	5.2	.135	.80	.80	.04	.06	.40	.011	.06	.25	.006	.05	.13			
40				.17	1.0	1.0	.05	.08	.50	.015	.07	.30	.007	.06	.15			
45				.21	1.3	1.3	.063	.10	.60	.02	.09	.35	.008	.065	.18			
50				.25	1.6	1.6	.073	.12	.70	.022	.10	.40	.01	.07	.20			
60				.34	2.2	2.2	.10	.18	.90	.03	.12	.45	.015	.08	.25			
80				.57	3.7	3.7	.16	.30	1.5	.05	.15	.55	.02	.10	.40			
100				.85	5.8	5.8	.23	.44	2.3	.075	.18	.60	.03	.11	.50	.008	.04	.10
120				1.18	9.1	9.1	.32	.64	3.3	.105	.21	1.0	.04	.13	.60	.01	.05	.15
140							.42	.85	4.5	.14	.23	1.25	.05	.16	.80	.013	.06	.20
160							.54	1.13	5.8	.17	.28	1.6	.07	.20	1.1	.015	.07	.25
180							.67	1.45	7.4	.205	.31	2.0	.08	.21	1.3	.02	.08	.30
200							.81	1.82	9.0	.245	.35	2.5	.10	.26	1.6	.025	.09	.40
220							.95	2.22	11.0	.29	.41	3.0	.12	.30	1.9	.028	.10	.50
240							1.10	2.63	13.5	.34	.48	3.7	.14	.33	2.2	.035	.11	.55
260										.39	.53	4.5	.165	.39	2.5	.04	.115	.60
280										.45	.61	5.3	.19	.42	2.8	.045	.12	.65
300										.515	.70	6.2	.22	.50	3.1	.05	.13	.70
350										.68	1.05	8.5	.28	.67	4.1	.07	.15	.90
400										.86	1.55	11.0	.38	.88	5.2	.085	.18	1.2
450										1.05	2.25	13.5	.44	1.1	6.6	.105	.20	1.5
500													.54	1.4	8.0	.13	.23	1.75
550													.64	1.7	9.5	.15	.27	2.1
600													.75	2.05	10.2	.175	.30	2.5
650													.87	2.41	13.0	.20	.34	2.8
700													.10	2.8	15.0	.23	.40	3.4
750																.26	.43	3.8
800																.30	.50	4.4

BC/BP-Series Centrifugal Pump – Viscosity Chart

N - Newtonian, T - Thixotropic, D - Dilatant

	Fluid	Specific Gravity	Viscosity CPS	Viscosity Type
Reference	Water	1.0	1.0	N
Adhesives	"box" adhesives	1+-	3,000	T
	PVA	1.3	100	T
	rubber and solvents	1.0	15,000	N
Bakery	batter	1.0	2,000	T
	butter (melted)	0.98	18 at 140°F	N
	egg (whole)	0.5	60 at 50°F	N
	emulsifier	---	20	T
	frosting	1.0	10,000	T
	lecithin	-	3,250 at 125°F	T
	77% sweetened condensed milk	1.3	10,000 at 77°F	N
	yeast slurry 15%	1.0	180	T
	beer	1.0	1.1 at 40°F	N
Beer/Wine	brewers concentrated yeast (80% solids)	---	16,000 at 40°F	T
	wort	---	---	---
	wine	1.0	---	---
Confectionery	caramel	1.2	400 at 140°F	---
	chocolate	1.1	17,000 at 120°F	T
	fudge (hot)	1.1	36,000	T
	toffee	1.2	87,000	T
Cosmetics/Soaps	face cream	---	10,000	T
	hair gel	1.4	5,000	T
	shampoo	---	5,000	T
	toothpaste	---	20,000	T
	hand cleaner	---	2,000	T
Dairy	cottage cheese	1.08	225	T
	cream	1.02	20 at 40°F	N
	milk	1.03	1.2 at 60°F	N
	process cheese	---	30,000 at 160°F	T
	yogurt	---	1,100	T
Detergents	detergent concentrate	---	10	N
Dyes and Inks	printers ink	1 to 1.38	10,000	T
	dye	1.1	10	N
	gum	---	5,000	T
Fats and Oils	corn oil	0.92	30	N
	lard	0.96	60 at 100°F	N
	linseed oil	0.93	30 at 100°F	N
	peanut oil	0.92	42 at 100°F	N
	soybean oil	0.95	36 at 100°F	N
	vegetable oil	0.92	3 at 300°F	N
Misc. Foods	black bean paste	---	10,000	T
	cream style corn	---	130 at 190°F	T
	ketchup	1.11	560 at 145°F	T
	pablum	---	4,500	T
	pear pulp	---	4,000 at 160°F	T
	mashed potato	1.0	20,000	T
	potato skins and caustic	---	20,000 at 100°F	T
	prune juice	1.0	60 at 120°F	T
	orange juice concentrate	1.1	5,000 at 38°F	T
	tapioca pudding	0.7	1,000 at 235°F	T
	mayonnaise	1.0	5,000 at 75°F	T
	33% tomato paste	1.14	7,000	T
	honey	1.5	1,500 at 100°F	---

BC/BP-Series Centrifugal Pump – Viscosity Chart

N - Newtonian, T - Thixotropic, D - Dilatant

	Fluid	Specific Gravity	Viscosity CPS	Viscosity Type
Meat Products	melted animal fat	0.9	43 at 100°F	N
	ground beef fats	0.9	11,000 at 60°F	T
	meat emulsion	1.0	22,000 at 40°F	T
	pet food	1.0	11,000 at 40°F	T
	pork fat slurry	1.0	650 at 40°F	T
Misc. Chemicals	glycols	1.1	35 at range	---
Paint	metallic auto paints	---	220	T
	solvents	0.8 to 0.9	0.5 to 10	N
	titanium dioxide slurry	---	10,000	T
	varnish	1.06	140 at 100°F	---
	turpentine	0.86	2 at 60°F	---
Paper and Textile	black liquor tar	---	2,000 at 300°F	---
	paper coating 35%	---	400	---
	sulfide 6%	---	1,600	---
	black liquor	1.3	1,100 at 122°F	---
	black liquor soap	---	7,000 at 122°F	---
Petroleum and Petroleum Products	asphalt (unblended)	1.3	500 to 2,500	---
	gasoline	0.7	0.8 at 60°F	N
	kerosene	0.8	3 at 68°F	N
	fuel oil #6	0.9	660 at 122°F	N
	auto lube oil SAE 40	0.9	200 at 100°F	N
	auto lube oil SAE 90	0.9	320 at 100°F	N
	propane	0.46	0.2 at 100°F	N
	tars	1.2	wide range	---
Pharmaceuticals	castor oil	0.96	350	N
	cough syrup	1.0	190	N
	"stomach" remedy slurries	---	1,500	T
	pill pastes	---	5,000 +-	T
Plastic Resins ¹	butadiene	0.94	0.17 at 40°F	---
	polyester resin (typ)	1.4	3,000	T
	PVA resin (typ)	1.3	65,000	---
Starches and Gums	corn starch Sol 22°B	1.18	32	T
	corn starch Sol 25°B	1.21	300	T
Sugars, Syrups, Molasses	corn syrup 41 Be	1.39	15,000 at 60°F	N
	corn syrup 45 Be	1.45	12,000 at 130°F	N
	glucose	1.42	10,000 at 100°F	---
	molasses A	1.42	280 to 5,000 at 100°F	---
	molasses B	1.43 to 1.48	1,400 to 13,000 at 100°F	---
	molasses C	1.46 to 1.49	2,600 to 5,000 at 100°F	---
	sugar syrups	---	---	---
	60 Brix	1.29	75 at 60°F	N
	68 Brix	1.34	360 at 60°F	N
	76 Brix	1.39	4,000 at 60°F	N
Water and Waste Treatment	clarified sewage sludge	1.1	2,000 range	---

¹Wide variety of plastics can be pumped, viscosity varies greatly.

BC/BP-Series Centrifugal Pump – Repair Kits

Repair Kit 1

Series	Model #	Elastomer				Items Included
		Nitrile Rubber	EPDM	Silicone	FKM	
BC	114	PRK1-114B	PRK1-114E	PRK1-114S	PRK1-114V	(1) casing gasket (P90)
	216	PRK1-216B	PRK1-216E	PRK1-216S	PRK1-216V	(1) carbon seal (P80)
	218/328	PRK1-218BB	PRK1-218BE	PRK1-218BS	PRK1-218BV	(1) seal O-ring (P80B) (1) impeller retainer (P24)
BP	114	PRK1-114BP	PRK1-114EP	PRK1-114SP	PRK1-114VP	(1) casing gasket (P90)
	216	PRK1-216BP	PRK1-216EP	PRK1-216SP	PRK1-216VP	(1) carbon seal (P80)
	218/328	PRK1-218BBP	PRK1-218BEP	PRK1-218BSP	PRK1-218BVP	(1) seal O-ring (P80B)
	441	PRK1-441B	PRK1-441E	---	PRK1-441V	(2) impeller O-rings (P25A)

Repair Kit 2

Series	Model #	Elastomer				Items Included
		Nitrile Rubber	EPDM	Silicone	FKM	
BC/BP	114	PRK2-114B	PRK2-114E	PRK2-114S	PRK2-114V	(3) casing gaskets (P90) (3) seal O-rings (P80B) (3) carbon seals (P90)
	216	PRK2-216B	PRK2-216E	PRK2-216S	PRK2-216V	
	218/328	PRK2-218BB	PRK2-218BE	PRK2-218BS	PRK2-218BV	
	441	PRK2-441B	PRK2-441E	---	PRK2-441V	

Repair Kit 3

Series	Model #	Elastomer				Items Included
		Nitrile Rubber	EPDM	Silicone	FKM	
BC/BP	114	PRK3-114B	PRK3-114E	PRK3-114S	PRK3-114V	(1) carbon seal (P80) (1) seal cup (P80A) (1) seal O-ring (P80B) (1) spring (P80C)
	216	PRK3-216B	PRK3-216E	PRK3-216S	PRK3-216V	
	218/328	PRK3-218BB	PRK3-218BE	PRK3-218BS	PRK3-218BV	
	441	PRK3-441B	PRK3-441E	---	PRK3-441V	

Repair Kit 4

Series	Model #	Elastomer				Items Included
		Nitrile Rubber	EPDM	Silicone	FKM	
BC	114	PRK4-114B	PRK4-114E	PRK4-114S	PRK4-114V	(1) casing gasket (P90) (1) carbon seal (P80) (1) seal cup (P80A) (1) seal O-ring (P80B) (1) spring (P80C) (1) impeller retainer (P24)
	216	PRK4-216B	PRK4-216E	PRK4-216S	PRK4-216V	
	218/328	PRK4-218BB	PRK4-218BE	PRK4-218BS	PRK4-218BV	
BP	114	PRK4-114BP	PRK4-114EP	PRK4-114SP	PRK4-114VP	(1) casing gasket (P90) (1) carbon seal (P80) (1) seal cup (P80A) (1) seal O-ring (P80B) (1) spring (P80C) (2) impeller O-rings (P25A)
	216	PRK4-216BP	PRK4-216EP	PRK4-216SP	PRK4-216VP	
	218/328	PRK4-218BBP	PRK4-218BEP	PRK4-218BSP	PRK4-218BVP	
	441	PRK4-441B	PRK4-441E	---	PRK4-441V	

BC/BP-Series Centrifugal Pump – Repair Kits

DG Repair Kit

Series	Model #	Elastomer	Seal Seat Material			Items Included
			Ceramic	Silicon Carbide	Tungsten Carbide	
BC	114	nitrile rubber	PRKDG-114BCER	PRKDG-114BSC	PRKDG-114BTC	(1) seal seat (P80N) (1) carbon seal (P80) (1) seal cup (P80A) (1) seal O-ring (P80B) (1) spring (P80C) (1) outboard gasket (P80P) (1) inboard gasket (P80R) (1) casing gasket (P90) (1) impeller retainer (P24)
		EPDM	PRKDG-114ECER	PRKDG-114ESC	PRKDG-114ETC	
		silicone	PRKDG-114SCER	PRKDG-114SSC	PRKDG-114STC	
		FKM	PRKDG-114VCER	PRKDG-114VSC	PRKDG-114VTC	
	216	nitrile rubber	PRKDG-216BCER	PRKDG-216BSC	PRKDG-216BTC	
		EPDM	PRKDG-216ECER	PRKDG-216ESC	PRKDG-216ETC	
		silicone	PRKDG-216SCER	PRKDG-216SSC	PRKDG-216STC	
		FKM	PRKDG-216VCER	PRKDG-216VSC	PRKDG-216VTC	
	218/328	nitrile rubber	PRKDG-218BBCER	PRKDG-218BBSC	PRKDG-218BBTC	
		EPDM	PRKDG-218BECER	PRKDG-218BESC	PRKDG-218BETC	
		silicone	PRKDG-218BSCER	PRKDG-218BSSC	PRKDG-218BSTC	
		FKM	PRKDG-218BVCER	PRKDG-218BVSC	PRKDG-218BVTCT	
BP	114	nitrile rubber	PRKDG-114BCERP	PRKDG-114BSCP	PRKDG-114BTCPT	(1) seal seat (P80N) (1) carbon seal (P80) (1) seal cup (P80A) (1) seal O-ring (P80B) (1) spring (P80C) (1) outboard gasket (P80P) (1) inboard gasket (P80R) (1) casing gasket (P90) (2) impeller O-rings (P25A)
		EPDM	PRKDG-114ECERP	PRKDG-114ESCP	PRKDG-114ETCPT	
		silicone	PRKDG-114SCERP	PRKDG-114SSCP	PRKDG-114STCPT	
		FKM	PRKDG-114VCERP	PRKDG-114VSCP	PRKDG-114VTCPT	
	216	nitrile rubber	PRKDG-216BCERP	PRKDG-216BSCP	PRKDG-216BTCPT	
		EPDM	PRKDG-216ECERP	PRKDG-216ESCP	PRKDG-216ETCPT	
		silicone	PRKDG-216SCERP	PRKDG-216SSCP	PRKDG-216STCPT	
		FKM	PRKDG-216VCERP	PRKDG-216VSCP	PRKDG-216VTCPT	
	218/328	nitrile rubber	PRKDG-218BBCERP	PRKDG-218BBSCP	PRKDG-218BBTCPT	
		EPDM	PRKDG-218BECERP	PRKDG-218BESCP	PRKDG-218BETCPT	
		silicone	PRKDG-218BSCERP	PRKDG-218BSSCP	PRKDG-218BSTCPT	
		FKM	PRKDG-218BVCERP	PRKDG-218BVSCP	PRKDG-218BVTCTPT	
	441	nitrile rubber	PRKDG-441BCER	PRKDG-441BSC	PRKDG-441BTC	
		EPDM	PRKDG-441ECER	PRKDG-441ESC	PRKDG-441ETC	
		FKM	PRKDG-441VCER	PRKDG-441VSC	PRKDG-441VTC	

DG Seal Conversion Kit

Series	Model #	Seal Seat Material			Items Included
		Ceramic	Silicon Carbide	Tungsten Carbide	
BC/BP	114	PCK-114DGCER	PCK-114DGSC	PCK-114DGTC	(1) DG backplate (P11H) (1) gland ring (P17J) (4) gland bolts (P17K) (1) seal seat (P80N) (1) outboard gasket (P80P) (1) inboard gasket (P80R)
	216	PCK-216DGCER	PCK-216DGSC	PCK-216DGTC	
	218/328	PCK-218BDGCER	PCK-218BDGSC	PCK-218BDGTC	

Notes

Limited Warranty

DIXON VALVE & COUPLING COMPANY, LLC (herein called "Dixon") warrants the products described herein and manufactured by Dixon to be free from defects in material and workmanship for a period of one (1) year from date of shipment by Dixon under normal use and service. Its sole obligation under this warranty being limited to repairing or replacing, as hereinafter provided, at its option any product found to Dixon's satisfaction to be defective upon examination by it, provided that such product shall be returned for inspection to Dixon's factory within three (3) months after discovery of the defect. The repair or replacement of defective products will be made without charge for parts or labor. This warranty shall not apply to: (a) parts or products not manufactured by Dixon, the warranty of such items being limited to the actual warranty extended to Dixon by its supplier; (b) any product that has been subject to abuse, negligence, accident, or misapplication; (c) any product altered or repaired by others than Dixon; and (d) normal maintenance services and the replacement of service items (such as washers, gaskets, and lubricants) made in connection with such services. To the extent permitted by law, this limited warranty shall extend only to the buyer and any other person reasonably expected to use or consume the goods who is injured in person by any breach of the warranty. No action may be brought against Dixon for an alleged breach of warranty unless such action is instituted within one (1) year from the date the cause of action accrues. This limited warranty shall be construed and enforced to the fullest extent allowable by applicable law.

Other than the obligation of Dixon set forth herein, Dixon disclaims all warranties, express or implied, including but not limited to any implied warranties of merchantability or fitness for a particular purpose, and any other obligation or liability. The foregoing constitutes Dixon's sole obligation with respect to damages, whether direct, incidental, or consequential, resulting from the use or performance of the product.

Some products and sizes may be discontinued when stock is depleted or may require a minimum quantity for ordering.

Limits of Liability

This brochure is intended as a product offering. It is not intended to be a user or technical manual. Information in this brochure is subject to change without notice. All users and distributors of products sold through this brochure should contact Dixon with questions of use, compatibilities, coupling procedures, and life of product. Our full-time engineering and test staff are always available to recommend uses and to assist distributors and users with any questions.



Safety



Safety logos, which appear throughout our catalog, are used as a reminder that the user should carefully review for the appropriateness of the product for the media, application, and environment in which it will be used.

NOTE: Because of the health hazards associated with contamination and lead content in drinking water systems, Dixon couplings, unless otherwise specifically approved, are not recommended for potable water service and should not be used in applications where drinking water will contact the wetted surfaces of the coupling.

All Dixon products are shipped in cartons with the following warning:

"WARNING: This product contains lead, a chemical known to the State of California to cause cancer and birth defects or other reproductive harm."

Trademark

Delrin® and Zytel® are registered trademarks of E. I. du Pont de Nemours and Company.

Kalrez® is a registered trademark of DuPont Dow Elastomers.

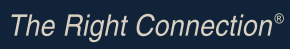
All other trademarks appearing in the Dixon illustrated product list are the property of their respective owners.

Copyright

Copyright © 2026 by Dixon Valve & Coupling Company, LLC

All rights reserved. This book is copyrighted material. Use, reproduction or copying of it by anyone other than Dixon® is strictly forbidden without its express written consent.

NOTE: Reasonable care has been taken in preparing this catalog. Dixon Valve & Coupling Company, LLC reserves the right to make corrections.



Page 10 of 10



DSEPRGBCBP_0926