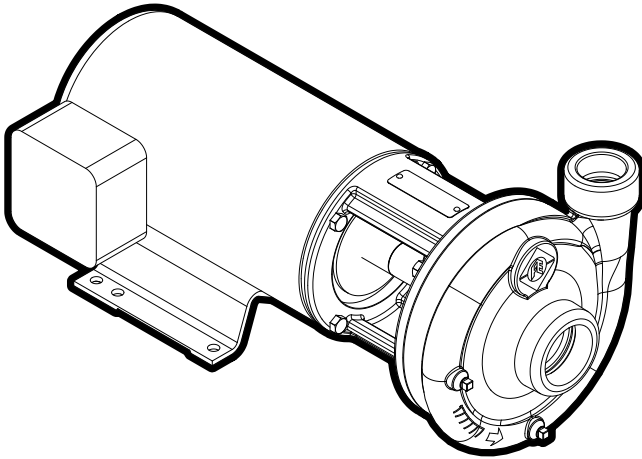


Close-Coupled 6"

BOOK: CCI-005
DATE: Mar. 1, 2012



Specifications:

Capacities: to 640 gpm

Heads: to 175 feet

Working Pressure: 150 psi

Temperature: maximum 212 °F

Rotation: clockwise viewed from motor end

Pipe Connections: NPT

Discharge	Suction
1"	1-1/2"
1-1/2"	2"
3"	4"

Features:

- **Volute:** Heavy cast iron construction, back pullout design. Can be rotated for ease of installation.
- **Impeller:** Enclosed design for high efficiency, 1-1/2 x 2, 1-1/2 x 2 bronze, 3x4 cast iron.
- **Seal:** Packed box with lantern ring or mechanical seal with carbon ceramic faces, BUNA elastomers and 300 series stainless components.
- **Motor:** 3600 rpm standard JP frame motors available in ODP or TEFC enclosures.
- **Mounting:** Can be mounted in vertical or horizontal position.

Maintenance Features:

- Replaceable shaft sleeve
- Replaceable wear-ring (3x4 only)

Applications:

- Booster Service
- Jockey Pumps
- Liquid Transfer
- Spray Systems
- General Service
- Water Circulation

Close-Coupled 6"

Dimensional Drawings:

FIGURE 1
1 X 1-1/2 - 6

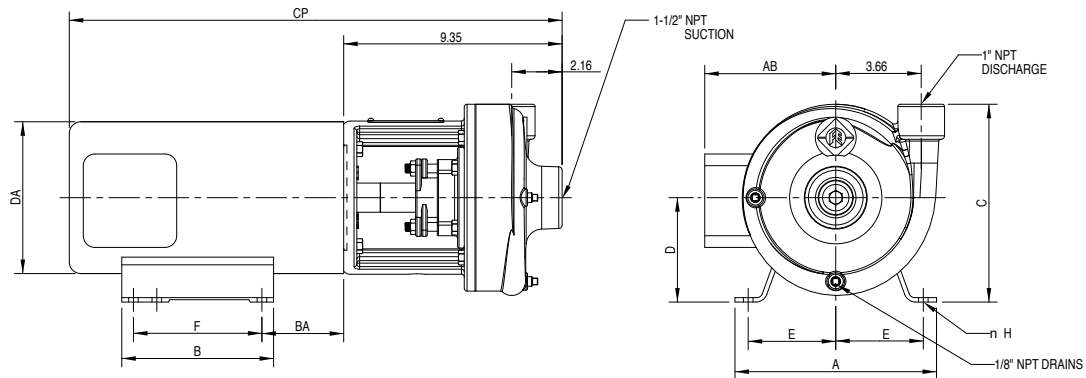


FIGURE 2
1-1/2 X 2 - 6

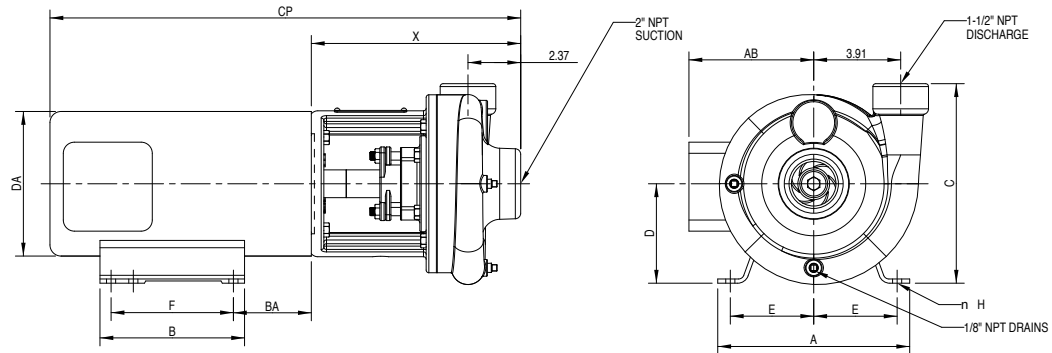
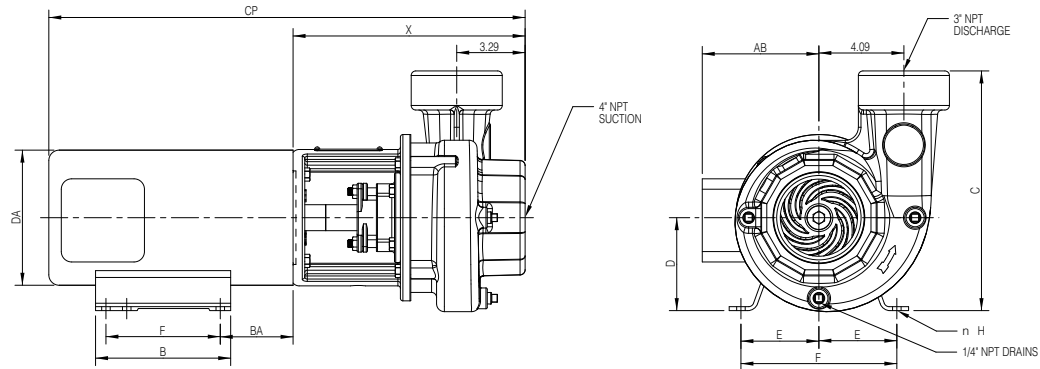


FIGURE 3
3 X 4 - 6



Dimensions:

HP	Fig.	Phase	Impeller Trim	A	B	C	CP	D	E	F	H	AB	BA	DA	X
3	1	1	6.13	8.63	6.50	8.47	21.60	4.47	3.75	5.50	.41	6.75	3.50	7.94	-
	1	3		6.70	5.90	7.50	10.06	3.50	2.75	5.00	.41	6.50	.02	6.51	-
5	1	1	6.44	8.75	6.50	8.47	20.09	4.47	3.75	5.50	.41	6.88	2.06	8.00	-
	1	3		8.63	6.50	8.47	20.73	4.47	3.75	5.50	.41	5.61	3.50	6.50	-
3	2	1	4.59	8.63	6.50	8.97	21.66	4.47	3.75	5.50	.41	6.75	3.50	7.94	9.41
	2	3		6.70	5.90	8.00	18.92	3.50	2.75	5.00	.34	6.50	.82	6.51	9.41
5	2	1	5.75	8.75	6.50	8.97	20.15	4.47	3.75	5.50	.41	6.88	2.06	8.00	9.41
	2	3		8.63	6.50	8.97	20.79	4.47	3.75	5.50	.41	5.61	3.50	6.50	9.41
7-1/2	2	1	6.44	9.50	8.00	9.75	24.32	5.25	4.25	7.00	.41	7.93	4.50	9.56	10.38
	2	3		8.75	6.50	8.97	21.66	4.47	3.75	5.50	.41	6.88	2.06	8.00	9.41
5	3	1	4.50	8.75	6.50	11.31	21.90	4.47	3.75	5.50	.41	6.88	2.06	8.00	11.16
	3	3		8.63	6.50	11.31	22.54	4.47	3.75	5.50	.41	5.61	3.50	6.50	11.16
7-1/2	3	1	4.94	9.50	8.00	12.09	26.07	5.25	4.25	7.00	.41	7.93	4.50	9.56	12.13
	3	3		8.75	6.50	11.31	23.41	4.47	3.75	5.50	.41	6.88	2.06	8.00	11.16
10	3	1	5.31	9.50	8.00	12.09	27.19	5.25	4.25	7.00	.41	7.93	4.50	9.56	12.13
	3	3		9.50	8.00	12.09	24.94	5.25	4.25	7.00	.41	7.46	4.25	9.56	12.13
15	3	3	5.75	9.50	8.00	12.09	27.69	5.25	4.25	7.00	.43	7.93	4.50	9.56	12.13
20	3	3	6.00	11.25	11.25	14.00	30.06	6.25	5.00	10.00	.53	9.49	4.75	11.44	12.13

Note: Dimensions are for estimating purposes only.

Close-Coupled 6"

Ordering Information:

6" Nominal Impeller Diameter - Close-Coupled									
				ODP			TEFC		
Pump Size (Dis x Suc - Imp)	HP-RPM	PH	Sealing	Order Number	Model Description	Wt.	Order Number	Model Description	Wt.
1 x 1-1/2 - 6	3-3600	1	Packing	93180080	3DB1-CCPGBD	77	93181080	3DB1-CTPGBD	81
	5-3600	1	Packing	93180100	5DB1-CCPGED	125	93181100	5DB1-CTPGED	131
	3-3600	3	Packing	93180090	3DB1-CCPGBD	67	93181090	3DB1-CTPGBD	70
	5-3600	3	Packing	93180110	5DB1-CCPGED	85	93181110	5DB1-CTPGED	89
	3-3600	1	Mech. Seal	93190081	3DB1-CCMGBD	77	93191081	3DB1-CTMGBD	81
	5-3600	1	Mech. Seal	93190101	5DB1-CCMGED	125	93191101	5DB1-CTMGED	131
	3-3600	3	Mech. Seal	93190091	3DB1-CCMGBD	67	93191091	3DB1-CTMGBD	70
	5-3600	3	Mech. Seal	93190111	5DB1-CCMGED	85	93191111	5DB1-CTMGED	89
1-1/2 x 2 - 6	3-3600	1	Packing	93180114	3DB1.5-CCPEGA	79	93181114	3DB1.5-CTPEGA	83
	5-3600	1	Packing	93180120	5DB1.5-CCPFHF	127	93181120	5DB1.5-CTPFHF	133
	7.5-3600	1	Packing	93180140	75DB1.5-CCPGEE	189	93181140	75DB1.5-CTPGEE	198
	3-3600	3	Packing	93180116	3DB1.5-CCPEGA	68	93181116	3DB1.5-CTPEGA	71
	5-3600	3	Packing	93180130	5DB1.5-CCPFHF	107	93181130	5DB1.5-CTPFHF	112
	7.5-3600	3	Packing	93180150	75DB1.5-CCPGEE	115	93181150	75DB1.5-CTPGEE	121
	3-3600	1	Mech. Seal	93190115	3DB1.5-CCMEGA	79	93191115	3DB1.5-CTMEGA	83
	5-3600	1	Mech. Seal	93190121	5DB1.5-CCMFHF	127	93191121	5DB1.5-CTMFHF	133
	7.5-3600	1	Mech. Seal	93190141	75DB1.5-CCMGEE	189	93191141	75DB1.5-CTMGEE	198
	3-3600	3	Mech. Seal	93190117	3DB1.5-CCMEGA	68	93191117	3DB1.5-CTMEGA	71
	5-3600	3	Mech. Seal	93190131	5DB1.5-CCMFHF	107	93191131	5DB1.5-CTMFHF	112
	7.5-3600	3	Mech. Seal	93190151	75DB1.5-CCMGEE	115	93191151	75DB1.5-CTMGEE	121
3 x 4 - 6	5	1	Packing	93180330	5DB3-CCPEFA	143	93181330	5DB3-CTPEFA	150
	7.5-3600	1	Packing	93180350	75DB3-CCPEKE	171	93181350	75DB3-CTPEKE	180
	10-3600	1	Packing	93180370	10DB3-CCPFDB	185	93181370	10DB3-CTPFDB	194
	5-3600	3	Packing	93180340	5DB3-CCPEFA	206	93181340	5DB3-CTPEFA	216
	7.5-3600	3	Packing	93180360	75DB3-CCPEKE	131	93181360	75DB3-CTPEKE	138
	10-3600	3	Packing	93180380	10DB3-CCPFDB	191	93181380	10DB3-CTPFDB	201
	15-3600	3	Packing	93180390	15DB3-CCPFHF	194	93181390	15DB3-CTPFHF	204
	20-3600	3	Packing	93180400	20DB3-CCPGAA	243	93181400	20DB3-CTPGAA	255
	5-3600	1	Mech. Seal	93190331	5DB3-CCMEFA	143	93191331	5DB3-CTMEFA	150
	7.5-3600	1	Mech. Seal	93190351	75DB3-CCMEKE	171	93191351	75DB3-CTMEKE	180
	10-3600	1	Mech. Seal	93190371	10DB3-CCMFDB	185	93191371	10DB3-CTMFDB	194
	5-3600	3	Mech. Seal	93190341	5DB3-CCMEFA	206	93191341	5DB3-CTMEFA	216
	7.5-3600	3	Mech. Seal	93190361	75DB3-CCMEKE	131	93191361	75DB3-CTMEKE	138
	10-3600	3	Mech. Seal	93190381	10DB3-CCMFDB	191	93191381	10DB3-CTMFDB	201
	15-3600	3	Mech. Seal	93190391	15DB3-CCMFHF	194	93191391	15DB3-CTMFHF	204
	20-3600	3	Mech. Seal	93190401	20DB3-CCMGAA	243	93191401	20DB3-CTMGAA	255

Notes: Viton® seals available. Consult price sheets for list price adders.
 There will be an impeller trimming charge applied for any non-standard impeller trim.
 Consult price sheets for list price adders. All dimensions in inches. All weight in pounds.
 Viton® is a registered trademark of E. I. du Pont de Nemours and Company.

Impeller Trim:

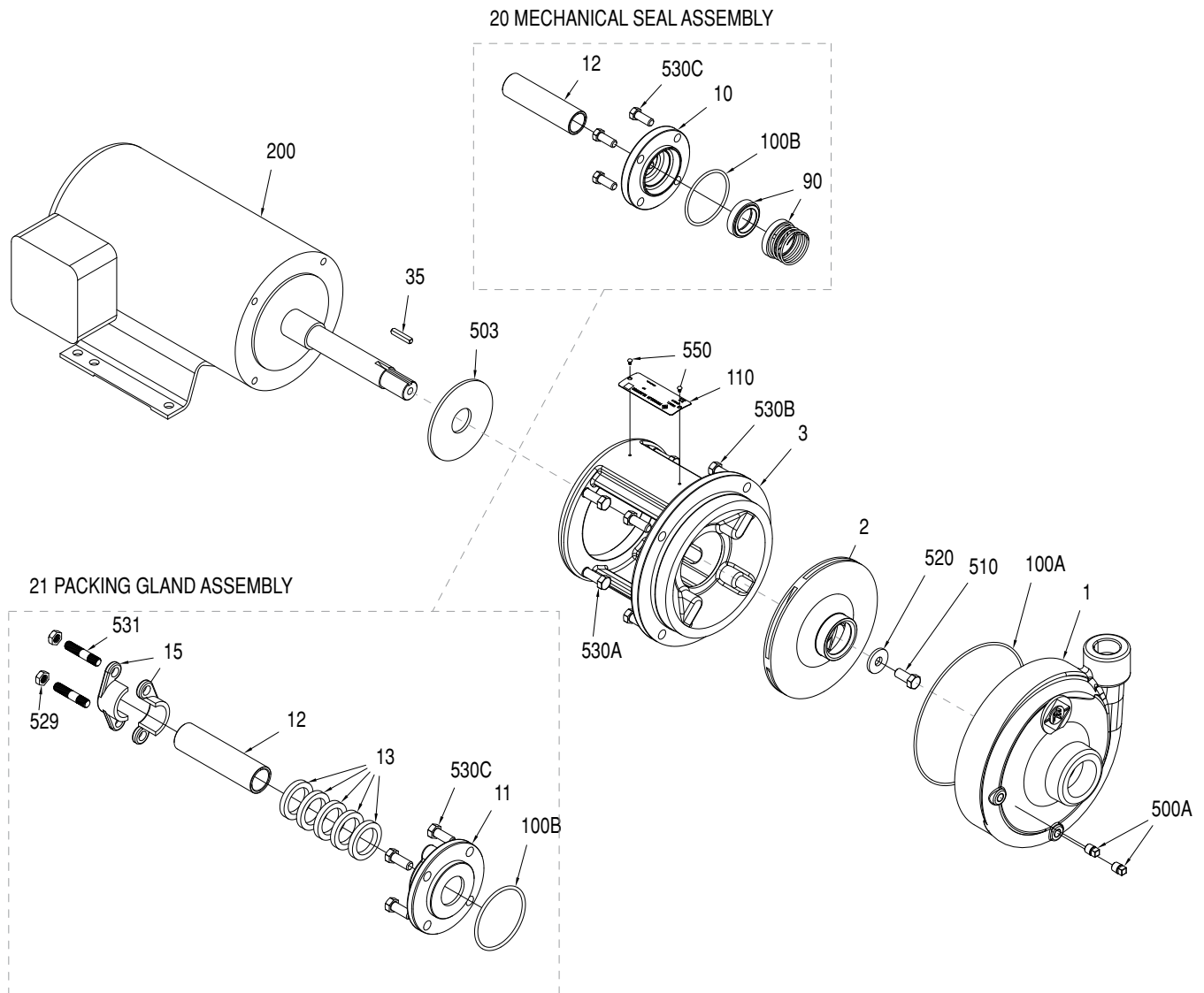
Impeller trim diameter designated by the last three digits of the model description.

Example: 15XS4313-CCMLBD = 10.13" trim

A	0	D	3	G	6	K	9	N	12
B	1	E	4	H	7	L	10	P	13
C	2	F	5	J	8	M	11	Q	14

Close-Coupled 6" 1 x 1.5 - 6

Exploded Parts Drawing:



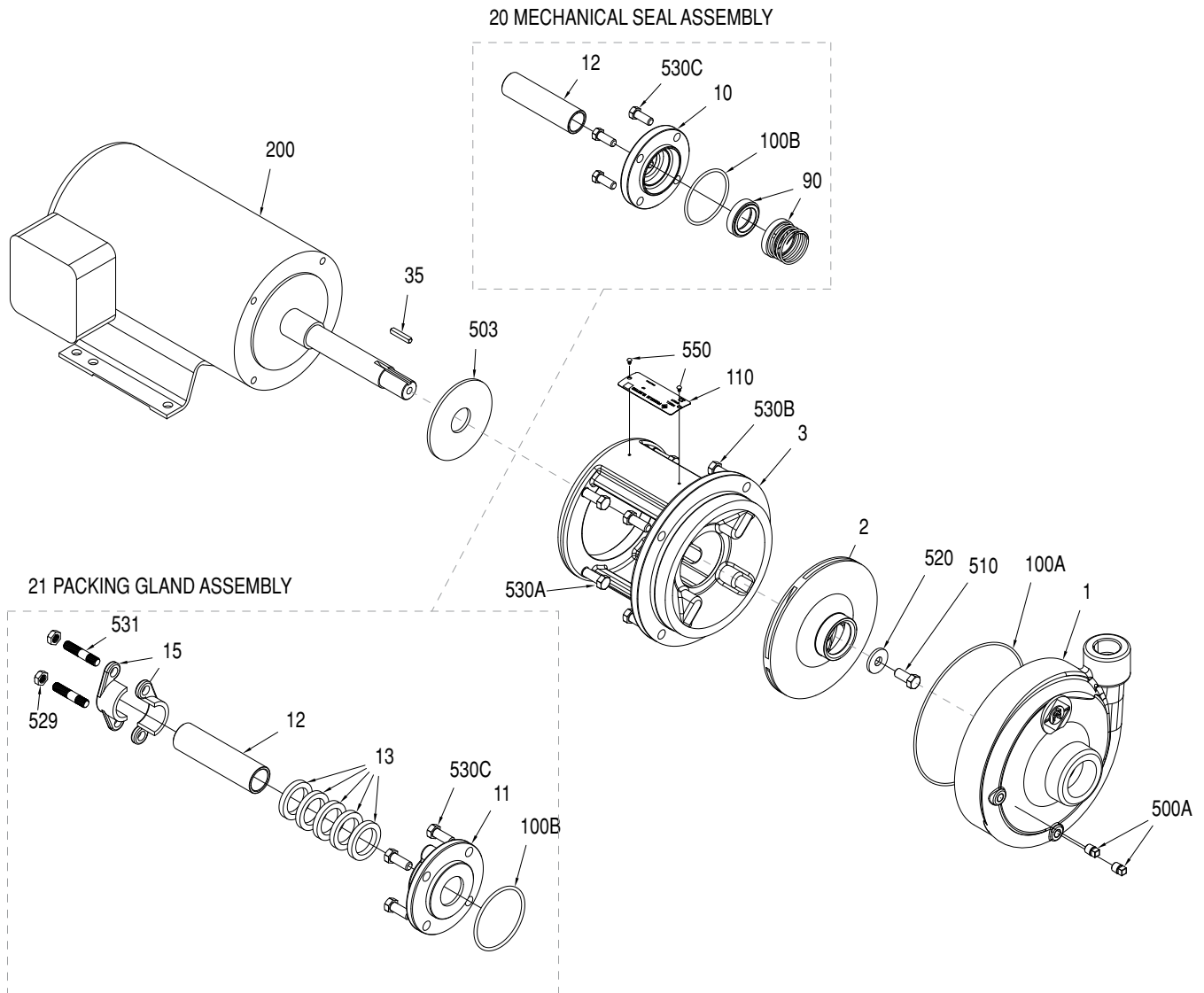
Close-Coupled 6" 1 x 1.5 - 6

Materials and Parts:

Fig No.	Part Description	Part No.	Materials of Construction
1	Volute Case (NPT) w/plugs	305447001	Cast Iron, ASTM-A48 CL30
2	3 hp Impeller Trim 6.13" (.875 bore)	305447010	Silicon Brass, ASTM B584
2	5 hp Impeller Trim 6.43" (.875 bore)	305447011	Silicon Brass, ASTM B584
3	Motor Bracket	305447002	Cast Iron, ASTM-A48 CL30
10	Mechanical Seal Box	305447003	Cast Iron, ASTM-A48 CL30
11	Packing Seal Box	305447004	Cast Iron, ASTM-A48 CL30
12	Mechanical Seal/Packing Shaft Sleeve	305447005	416 Stainless Steel
13	Packing Ring Set	305447006	Graphite/Cotton
15	Packing Gland (2 Piece)	305447007	316 Stainless Steel
20	Mechanical Seal Assembly (4.5AK)	305447012	Various
21	Packing Gland Assembly (4.5AK)	305447013	Various
35	Impeller Shaft Key	305463001	301 Stainless Steel
90	Mechanical Shaft Seal	305463002	Carbon/Ceramic/Buna/316SS
100A	Volute Case O-Ring (2-pack)	305463004	Nitrile
100B	Seal Box O-Ring (2-pack)	305463003	Nitrile
110/550	Nameplate FPS and Drive Screws	305463005	Stainless / Zinc Plated
200	See Motor Section		
500A	Pipe Plug (4-pack)	305463009	CAD Plated Steel
503	Water Slinger	305447008	Neoprene
510	Impeller Hex Cap Screw	305463006	316 Stainless-Grade 5
520	Impeller Washer	305447009	300 Series Stainless Steel
529	Packing Gland Nut (4-pack)	305463007	Zinc Plated Steel
530A	Motor Bracket Hex Cap Screw	305463010	(12-pack) Zinc Plated Steel
530B	Volute Case Hex Cap Screw		
530C	Seal Box Bolts		
531	Packing Gland Stud (4-pack)	305463008	Zinc Plated Steel

Close-Coupled 6" 1.5 x 2 - 6

Exploded Parts Drawing:



Close-Coupled 6" 1.5 x 2 - 6

Materials and Parts:

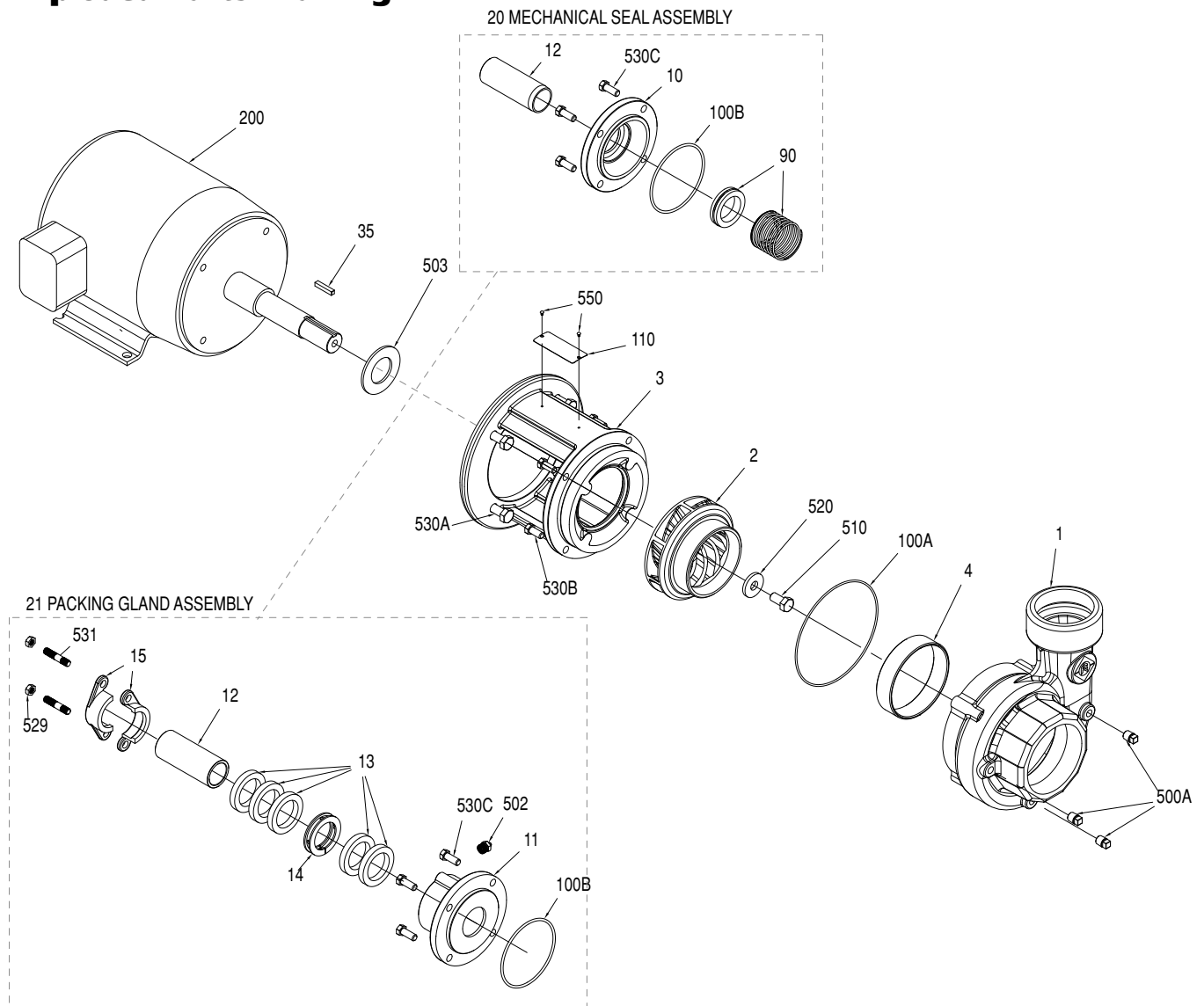
Fig No.	Part Description	Part No.		Materials of Construction
		4.5AK* Models	8.5AK* Models	
1	Volute Case (NPT) w/plugs	305448001		Cast Iron, ASTM-A48 CL30
2	3 hp Impeller Trim 4.60" (.875 bore)	305448015	n/a	Silicon Brass, ASTM B584
2	5 hp Impeller Trim 5.75" (.875 bore)	305448016	n/a	Silicon Brass, ASTM B584
2	7-1/2 hp Impeller Trim 6.44" (.875 bore)	305448017	n/a	Silicon Brass, ASTM B584
2	7-1/2 hp Impeller Trim 6.44" (1.250 bore)	n/a	305448018	Silicon Brass, ASTM B584
3	Motor Bracket	305447002	305448003	Cast Iron, ASTM-A48 CL30
10	Mechanical Seal Box	305447003	305448004	Cast Iron, ASTM-A48 CL30
11	Packing Seal Box	305447004	305448005	Cast Iron, ASTM-A48 CL30
12	Mechanical Seal/Packing Shaft Sleeve	305448006	n/a	416 Stainless Steel
12A	Packing Shaft Sleeve	n/a	305448007	416 Stainless Steel
12B	Mechanical Seal Shaft Sleeve	n/a	305448008	416 Stainless Steel
13	Packing Ring Set	305447006	305448009	Graphite/Cotton
14	Lantern Ring	n/a	305448010	PTFE
15	Packing Gland (2-Piece)	305447007	305448011	316 Stainless Steel
20	Mechanical Seal Assembly	305447012	305448019	Various
21	Packing Gland Assembly	305447013	305448020	Various
35	Impeller Shaft Key	305463001	305448012	301 Stainless Steel
90	Mechanical Shaft Seal	305463002	305463012	Carbon/Ceramic/Buna/316SS
100B	Seal Box O-Ring (2-pack)	305463003	305463013	Nitrile
100A	Volute Case O-Ring (2-pack)	305463004		Nitrile
110 /550	Nameplate FPS and Drive Screws	305463005		Stainless / Zinc Plated
200	See Motor Section			
500A	Pipe Plug (4-pack)	305463009		CAD Plated Steel
502	Grease Fitting (2-pack)	n/a	305463015	Zinc Plated Steel
503	Water Slinger	305447008		Neoprene
510	Impeller Hex Cap Screw	305463006	305463014	316 Stainless-Grade 5
520	Impeller Washer	305448013	305448014	300 Series Stainless Steel
529	Packing Gland Nut (4-pack)	305463007		Zinc Plated Steel
530A	Motor Bracket Hex Cap Screw	305463010	305463016	(12-pack) Zinc Plated Steel
530B	Volute Case Hex Cap Screw	305463010		
530C	Seal Box Bolts			
531	Packing Gland Stud (4-pack)	305463008		Zinc Plated Steel

Note: AK represents the pump to motor mounting register, 4.5AK=4-1/2"/8.5AK=8-1/2"/12.5AK=12-1/2".

AK Table				
HP	ODP		TEFC	
	1 ph	3 ph	1 ph	3 ph
3	4.5"	4.5"	4.5"	4.5"
5	4.5"	4.5"	4.5"	4.5"
7.5	8.5"	4.5"	8.5"	8.5"

Close-Coupled 6" 3 x 4 - 6

Exploded Parts Drawing:



Close-Coupled 6" 3 x 4 - 6

Materials and Parts:

Fig No.	Part Description	Part No.		Materials of Construction
		4.5AK* Models	8.5AK* Models	
1	Volute Case 5 hp-20 hp (NPT) w/plugs	305451001		Cast Iron, ASTM-A48 CL30
2	5 hp Impeller Trim 4.50" (.875 bore)	305451004	n/a	Cast Iron, ASTM-A48 CL30
2	7-1/2 hp Impeller Trim 4.94" (.875 bore)	305451005	n/a	Cast Iron, ASTM-A48 CL30
2	7-1/2 hp Impeller Trim 4.94" (1.250 bore)	n/a	305451006	Cast Iron, ASTM-A48 CL30
2	10 hp Impeller Trim 5.31" (1.250 bore)	n/a	305451007	Cast Iron, ASTM-A48 CL30
2	15 hp Impeller Trim 5.75" (1.250 bore)	n/a	305451008	Cast Iron, ASTM-A48 CL30
2	20 hp Impeller Trim 6.00" (1.250 bore)	n/a	305451009	Cast Iron, ASTM-A48 CL30
3	Motor Bracket	305447002	305448003	Cast Iron, ASTM-A48 CL30
4	Wear Ring (Suction)	305451002		SAE 660 Bronze
10	Mechanical Seal Box	305447003	305448004	Cast Iron, ASTM-A48 CL30
11	Packing Seal Box	305447004	305448005	Cast Iron, ASTM-A48 CL30
12	Mechanical Seal/Packing Shaft Sleeve	305448006	n/a	416 Stainless Steel
12	Mechanical Seal Shaft Sleeve	n/a	305449004	416 Stainless Steel
12	Packing Shaft Sleeve	n/a	305449005	416 Stainless Steel
13	Packing Ring Set	305447006	305448009	Graphite/Cotton
14	Lantern Ring	n/a	305448010	PTFE
15	Packing Gland (2-Piece)	305447007	305448011	316 Stainless Steel
20	Mechanical Seal Assembly	305447012	305448019	Various
21	Packing Gland Assembly	305447013	305448020	Various
35	Impeller Shaft Key	305451003	305450006	301 Stainless Steel
90	Mechanical Shaft Seal	305463002	305463017	Carbon/Ceramic/Buna/316SS
100B	Seal Box O-Ring	305463003	305463013	Nitrile
100C	Volute Case O-Ring (2-pack)	305463004		Nitrile
110 /550	Nameplate FPS and Drive Screws	305463005		Stainless / Zinc Plated
200	See Motor Section			
500A	Pipe Plug (4-pack)	305463020		CAD Plated Steel
502	Grease Fitting	n/a	305463015	Zinc Plated Steel
503	Water Slinger	305450007	305447008	Neoprene
510	Impeller Hex Cap Screw	305463006	305463019	316 Stainless-Grade 5
520	Impeller Washer	305447009	305450015	300 Series Stainless Steel
529	Packing Gland Nut (4-pack)	305463007		Zinc Plated Steel
530A	Motor Bracket Hex Cap Screw	305463010	305463016	(12-pack) Zinc Plated Steel
530B	Volute Case Hex Cap Screw	305463010		
530C	Seal Box Bolts			
531	Packing Gland Stud (4-pack)	305463008		Zinc Plated Steel

AK Table				
HP	ODP		TEFC	
	1 ph	3 ph	1 ph	3 ph
5	4.5"	4.5"	4.5"	4.5"
7.5	8.5"	4.5"	8.5"	8.5"
10	8.5"	8.5"	8.5"	8.5"
15	N/A	8.5"	N/A	8.5"
20	N/A	8.5"	N/A	8.5"

