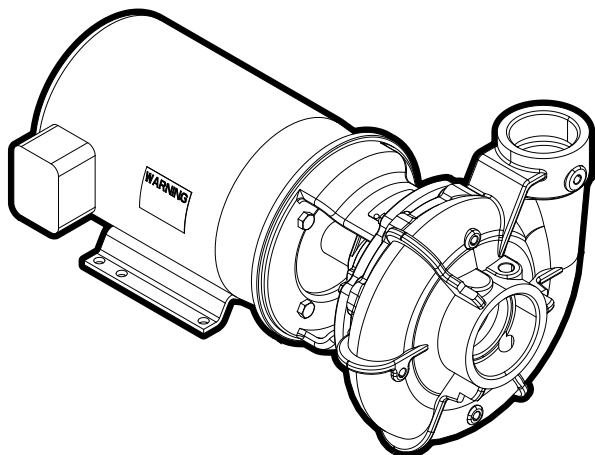


## Close-Coupled 9"

**BOOK:** CCI-020

**DATE:** Jan. 20, 2014



### Specifications:

**Capacities:** to 800 gpm

**Heads:** to 300 feet

**Working Pressure:** 250 psi

**Temperature:** maximum 212 °F

**Rotation:** clockwise viewed from motor end

**Pipe Connections:** 3x4 – NPT  
4x4 – NPT  
4x5 – Flanged Class 150

| Discharge | Suction |
|-----------|---------|
| 3"        | 4"      |
| 4"        | 4"      |
| 4"        | 5"      |

### Features:

- **Volute:** Heavy cast iron construction, back pullout design. Can be rotated for ease of installation.
- **Impeller:** Cast iron enclosed design for high efficiency hydraulically balanced for reduced bearing load.
- **Seal:** Packed box with lantern ring or mechanical seal with carbon/ceramic faces, BUNA elastomers and 300 series stainless components.
- **Motor:** 1800 rpm JP standard frame. Available in ODP or TEFC enclosures.
- **Mounting:** Can be mounted in a vertical or horizontal position.

### Maintenance Features:

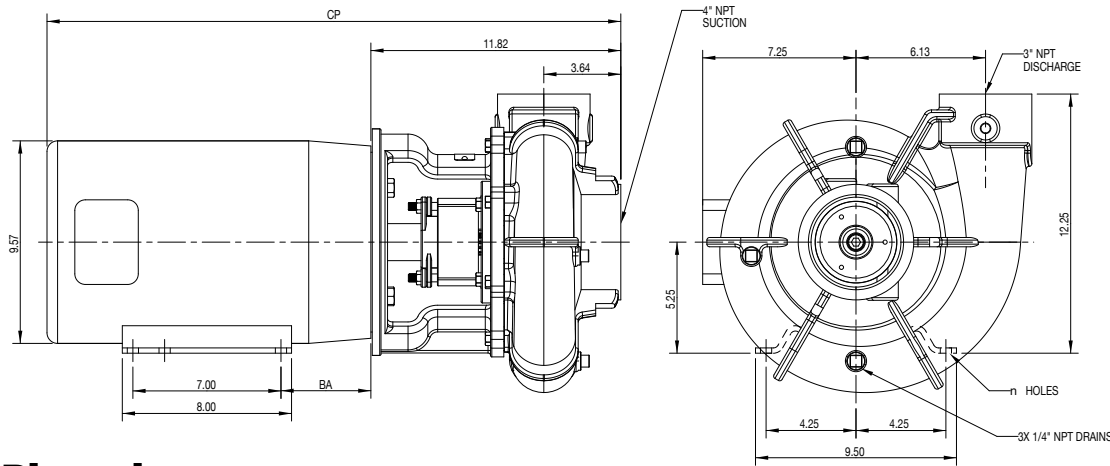
- Replaceable shaft sleeve
- Jack out holes
- 2 piece stainless packing gland

### Applications:

- Irrigation
- Commercial
- Construction
- Municipal
- Light Industrial
- General Services

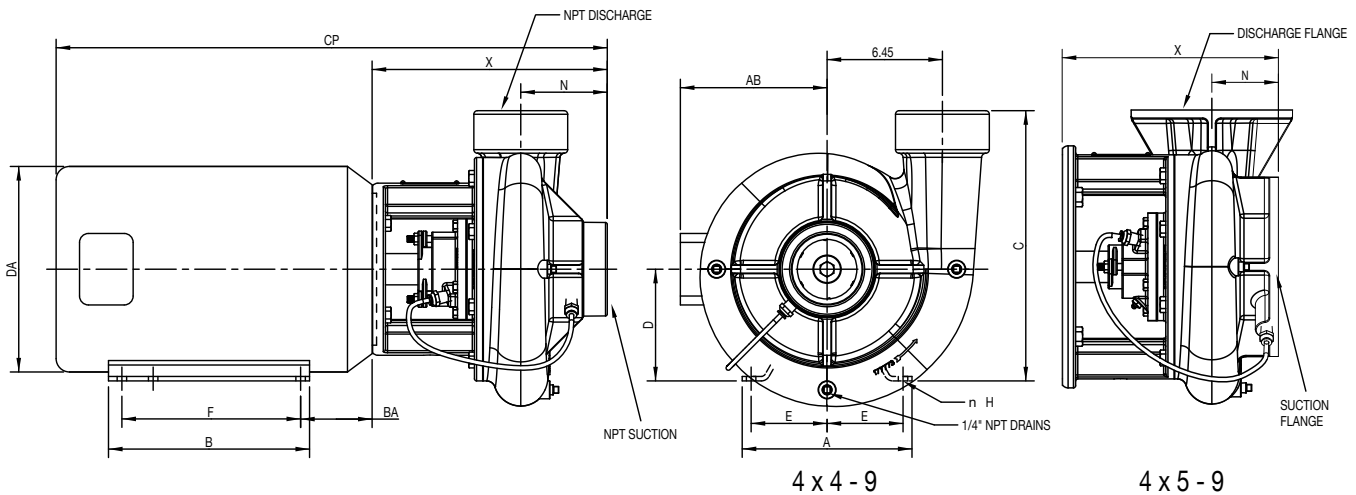
## Close-Coupled 9"

### Dimensional Drawings:



### Dimensions: 3 x 4 - 9

| HP  | Phase | Impeller Trim | CP    | BA   |
|-----|-------|---------------|-------|------|
| 7.5 | 3     | 7.62          | 24.38 | 4.25 |
|     | 1     | 7.62          | 25.51 | 4.50 |
| 10  | 3     | 8.38          | 24.38 | 4.25 |
|     | 1     | 8.38          | 26.63 | 4.50 |
| 15  | 3     | 9.00          | 27.13 | 4.25 |



### Dimensions: 4 x 4 - 9

| HP | Phase | Impeller Trim | A     | B     | C     | CP    | D    | E    | F     | H     | AB    | BA   | DA    | X     | N    |
|----|-------|---------------|-------|-------|-------|-------|------|------|-------|-------|-------|------|-------|-------|------|
| 20 | 3     | 7.03          | 8.75  | 6.50  | 13.34 | 31.09 | 4.47 | 3.75 | 5.50  | n .53 | 6.88  | 2.06 | 8.00  | 13.16 | 4.84 |
| 25 | 3     | 7.47          | 8.75  | 6.50  | 13.34 | 31.09 | 4.47 | 3.75 | 5.50  | n .53 | 6.88  | 2.06 | 8.00  | 13.16 | 4.84 |
| 30 | 3     | 7.88          | 12.25 | 12.24 | 15.84 | 32.97 | 6.97 | 5.50 | 11.00 | n .53 | 11.37 | 4.75 | 11.44 | 13.21 | 4.84 |

### Dimensions: 4 x 5 - 9

| HP | Phase | Impeller Trim | A     | B     | C     | CP    | D    | E    | F     | H     | AB    | BA   | DA    | X     | N    |
|----|-------|---------------|-------|-------|-------|-------|------|------|-------|-------|-------|------|-------|-------|------|
| 40 | 3     | 8.44          | 12.25 | 12.24 | 15.72 | 33.37 | 6.97 | 5.50 | 11.00 | n .53 | 11.37 | 4.75 | 11.44 | 12.06 | 3.71 |
| 50 | 3     | 9.03          | 14.25 | 13.75 | 16.75 | 33.25 | 8.00 | 6.25 | 12.00 | n .66 | 12.21 | 5.26 | 13.26 | 12.06 | 3.71 |

**Note:** Dimensions are for estimating purposes only. All dimensions in inches.

## Close-Coupled 9"

### Ordering Information: 3 x 4 - 9

| 9" Nominal Impeller Diameter - Close Coupled |          |    |            |             |                   |     |                         |                   |     |
|----------------------------------------------|----------|----|------------|-------------|-------------------|-----|-------------------------|-------------------|-----|
|                                              |          |    |            | ODP         |                   |     | TEFC                    |                   |     |
| Size                                         | HP-RPM   | PH | Seal       | Order #     | Model Description | Wt. | Order #                 | Model Description | Wt. |
| 3 x 4 - 9                                    | 7.5-1750 | 3  | Packing    | 70040309105 | 7XS439-CCPHGC     | 240 | 72040309105             | 7XS439-CTPHGC     | 276 |
|                                              | 7.5-1750 | 1  | Packing    | 74040309105 | 7XS439-CCPHGC     | 240 | Not Currently Available |                   |     |
|                                              | 10-1750  | 3  | Packing    | 70040309115 | 10XS439-CCPJJDJ   | 255 | 72040309115             | 10XS439-CTPJJDJ   | 293 |
|                                              | 10-1750  | 1  | Packing    | 74040309115 | 10XS439-CCPJJDJ   | 255 | Not Currently Available |                   |     |
|                                              | 15-1750  | 3  | Packing    | 70040309125 | 15XS439-CCPKAA    | 320 | 72040309125             | 15XS439-CTPKAA    | 368 |
|                                              | 7.5-1750 | 3  | Mechanical | 71040309100 | 7XS439-CCMHGC     | 240 | 73040309100             | 7XS439-CTMHGC     | 276 |
|                                              | 7.5-1750 | 1  | Mechanical | 74040309100 | 7XS439-CCMHGC     | 240 | Not Currently Available |                   |     |
|                                              | 10-1750  | 3  | Mechanical | 71040309110 | 10XS439-CCMJJDJ   | 255 | 73040309110             | 10XS439-CTMJJDJ   | 293 |
|                                              | 10-1750  | 1  | Mechanical | 74040309110 | 10XS439-CCMJJDJ   | 255 | Not Currently Available |                   |     |
|                                              | 15-1750  | 3  | Mechanical | 71040309120 | 15XS439-CCMKAA    | 320 | 73040309120             | 15XS439-CTMKAA    | 368 |

**Notes:** 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.

### Ordering Information: 4 x 4 - 9 / 4 x 5 - 9

| 9" Nominal Impeller Diameter - Close Coupled |         |    |            |          |                   |     |          |                   |     |
|----------------------------------------------|---------|----|------------|----------|-------------------|-----|----------|-------------------|-----|
|                                              |         |    |            | ODP      |                   |     | TEFC     |                   |     |
| Size                                         | HP-RPM  | PH | Seal       | Order #  | Model Description | Wt. | Order #  | Model Description | Wt. |
| 4 x 4 - 9                                    | 20-3600 | 3  | Packing    | 93180410 | 20DC4-CCPHHAD     | 330 | 93181410 | 20DC4-CTPHHAD     | 347 |
|                                              | 25-3600 | 3  | Packing    | 93180420 | 25DC4-CCPHEH      | 343 | 93181420 | 25DC4-CTPHEH      | 360 |
|                                              | 30-3600 | 3  | Packing    | 93180430 | 30DC4-CCPHJJ      | 407 | 93181430 | 30DC4-CTPHJJ      | 427 |
|                                              | 20-3600 | 3  | Mechanical | 93190411 | 20DC4-CCMHAD      | 330 | 93191411 | 20DC4-CTMHAD      | 347 |
|                                              | 25-3600 | 3  | Mechanical | 93190421 | 25DC4-CCMHEH      | 343 | 93191421 | 25DC4-CTMHEH      | 360 |
|                                              | 30-3600 | 3  | Mechanical | 93190431 | 30DC4-CCMHJJ      | 407 | 93191431 | 30DC4-CTMHJJ      | 427 |
| 4 x 5 - 9                                    | 40-3600 | 3  | Packing    | 93180440 | 40DC4-CCPJEE      | 451 | 93181440 | 40DC4-CTPJEE      | 474 |
|                                              | 50-3600 | 3  | Packing    | 93180450 | 50DC4-CCPKAD      | 611 | 93181450 | 50DC4-CTPKAD      | 642 |
|                                              | 40-3600 | 3  | Mechanical | 93190441 | 40DC4-CCMJEE      | 451 | 93191441 | 40DC4-CTMJEE      | 474 |
|                                              | 50-3600 | 3  | Mechanical | 93190451 | 50DC4-CCMKAD      | 611 | 93191451 | 50DC4-CTMKAD      | 642 |

**Notes:** 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.

### Impeller Trim:

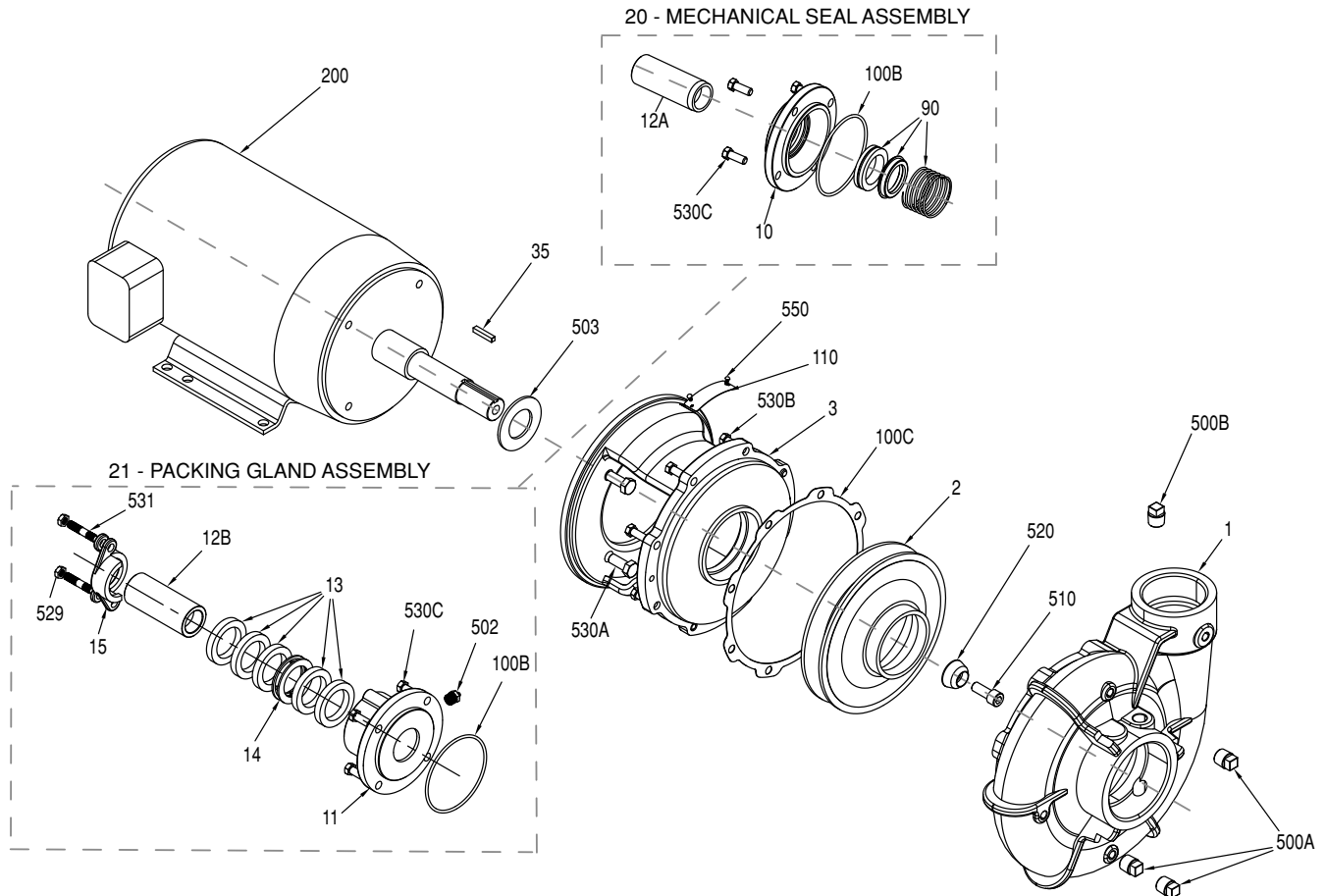
Impeller trim diameter designated by the last three digits of the model description.

**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 9" 3 x 4 - 9

### Exploded Parts Drawing:



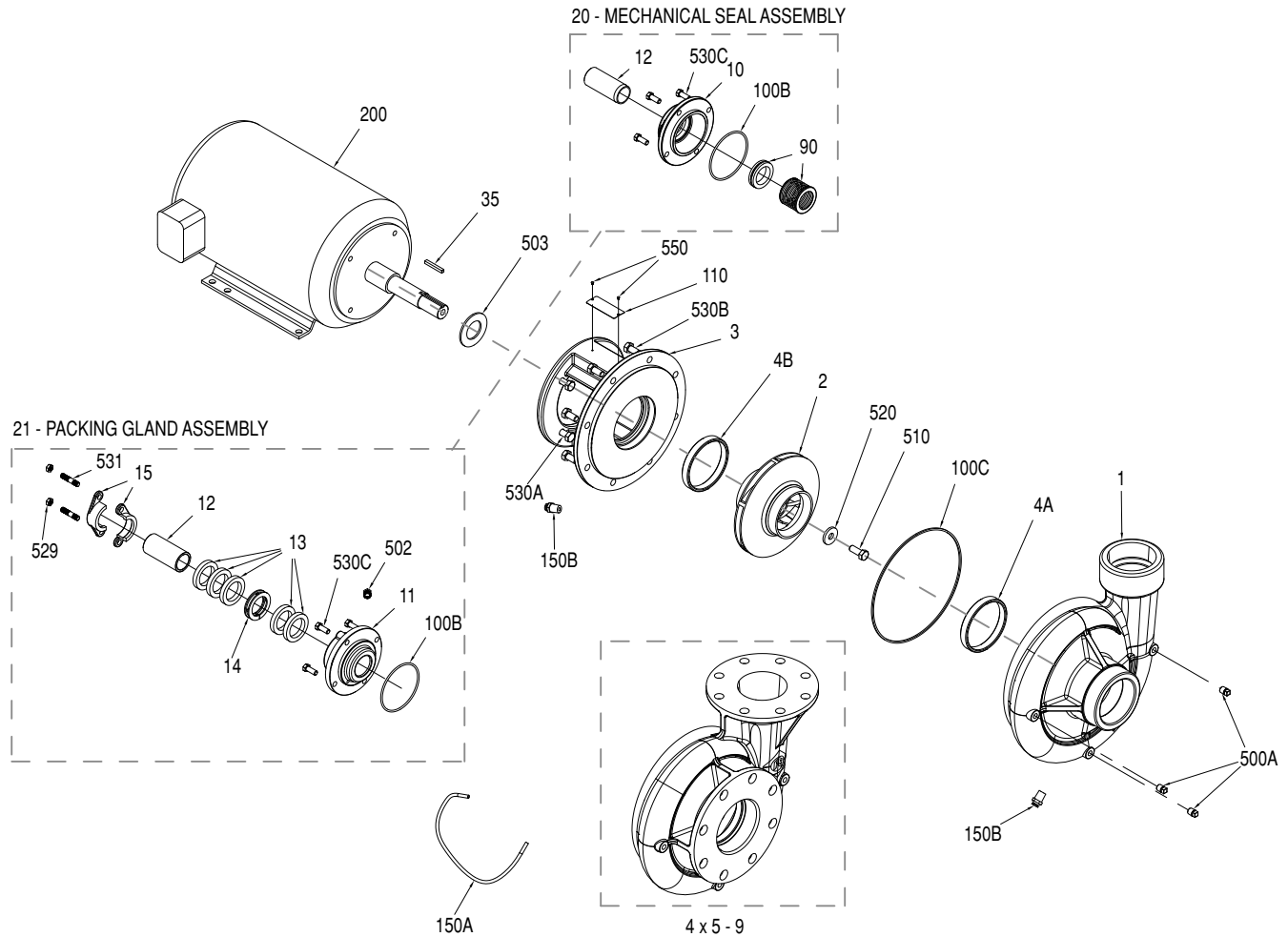
## Close-Coupled 9" 3 x 4 - 9

### Materials and Parts:

| Fig. No. | Part Description                    | Part No.          | Materials of Construction  |
|----------|-------------------------------------|-------------------|----------------------------|
| 1        | Volute Case                         | 305462001         | Cast Iron, ASTM-A48 CL 30  |
| 2        | Impeller (Full 9" Trim)             | 305462056         | Cast Iron, ASTM-A48 CL 30  |
| 3        | Motor Bracket 8.5AK                 | 305462002         | Cast Iron, ASTM-A48 CL 30  |
| 10       | Mechanical Seal Box                 | 305448004         | Cast Iron, ASTM-A48 CL 30  |
| 11       | Packing Seal Box                    | 305448005         | Cast Iron, ASTM-A48 CL 30  |
| 12B      | Packing Shaft Sleeve                | 305462004         | 416 Stainless Steel        |
| 12A      | Mechanical Seal Shaft Sleeve        | 305462005         | 416 Stainless Steel        |
| 13       | Packing Ring Set                    | 305448009         | Graphite/Cotton            |
| 14       | Lantern Ring                        | 305448010         | PTFE                       |
| 15       | Packing Gland (2 Piece)             | 305448011         | 316 Stainless Steel        |
| 20       | Mechanical Seal Assembly            | 305462053         | Misc.                      |
| 21       | Packing Gland Assembly              | 305462054         | Misc.                      |
| 35       | Impeller Shaft Key                  | 305450006         | 316 Stainless Steel        |
| 90       | Mechanical Shaft Seal               | 305463012         | Carbon/Ceramic/Buna/316SS  |
| 100B     | Packing/Seal Box O-Ring             | 305463013         | Nitrile                    |
| 100C     | Volute Case Gasket                  | 305463138         | NA60                       |
| 110/550  | NAMEPLATE FPS/Drive Screws          | 305463005         | Stainless                  |
| 200      | Motor - See Motor Section           | See Motor Section | Misc.                      |
| 502      | Grease Zerk Straight                | 305463015         | Cad-Plated Steel           |
| 503      | Water Slinger                       | 305447008         | Neoprene                   |
| 510      | Impeller Hex Cap Screw              | 305463014         | 316 Stainless-Grade 5      |
| 520      | Impeller Washer                     | 305448014         | 300 Series Stainless Steel |
| 529      | Packing Gland Nut (2 Required)      | 305463007         | Zinc Plated Steel          |
| 531      | Packing Gland Stud (2 Required)     | 305463008         | Zinc Plated Steel          |
| 500A     | Pipe Plug (4-pack)                  | 305463020         | Cad-Plated Steel           |
| 500B     | Pipe Plug (4-pack)                  | 305463144         | Cad-Plated Steel           |
| 530A     | Motor Bracket Hex Cap Screw (4 Req) | 305463016         | Zinc Plated Steel          |
| 530B     | Volute Case Hex Cap Screw (8 Req)   | 305463053         | Zinc Plated Steel          |
| 530C     | Seal Box Bolts (4 Req)              | 305463010         | Zinc Plated Steel Grade-6  |

## Close-Coupled 9" 4 x 4 - 9 / 4 x 5 - 9

### Exploded Parts Drawing:



## Close-Coupled 9" 4 x 4 - 9 / 4 x 5 - 9

### Materials and Parts:

| Fig. No. | Part Description                      | Part No.      |                | Materials of Construction  |
|----------|---------------------------------------|---------------|----------------|----------------------------|
|          |                                       | 8.5AK* Models | 12.5AK* Models |                            |
| 1        | Volute Case 20 hp-30 hp (NPT)         | 305452001     |                | Cast Iron, ASTM-A48 CL30   |
| 1        | Volute Case 40 hp-50 hp (Flanged)     | 305452002     |                | Cast Iron, ASTM-A48 CL30   |
| 2        | 20hp Impeller Trim 7.03"              | 305452014     | n/a            | Cast Iron, ASTM-A48 CL30   |
| 2        | 25hp Impeller Trim 7.47"              | 305452015     | n/a            | Cast Iron, ASTM-A48 CL30   |
| 2        | 30hp Impeller Trim 7.88"              | n/a           | 305452016      | Cast Iron, ASTM-A48 CL30   |
| 2        | 40hp Impeller Trim 8.44"              | n/a           | 305452017      | Cast Iron, ASTM-A48 CL30   |
| 2        | 50hp Impeller Trim 9.03"              | n/a           | 305452018      | Cast Iron, ASTM-A48 CL30   |
| 3        | Motor Bracket                         | 305452003     | 305452004      | Cast Iron, ASTM-A48 CL30   |
| 4A/B     | Wear Ring (Suction/Hub)               | 305452005     |                | SAE 660 Bronze             |
| 10       | Mechanical Seal Box                   | 305452006     |                | Cast Iron, ASTM-A48 CL30   |
| 11       | Packing Seal Box                      | 305452007     |                | Cast Iron, ASTM-A48 CL30   |
| 12       | Mechanical Seal Shaft Sleeve          | 305452008     |                | 416 Stainless Steel        |
| 12       | Packing Shaft Sleeve                  | 305452010     |                | 416 Stainless Steel        |
| 13       | Packing Ring Set                      | 305448009     |                | Graphite/Cotton            |
| 14       | Lantern Ring                          | 305448010     |                | PTFE                       |
| 15       | Packing Gland (2-Piece)               | 305448011     |                | 316 Stainless Steel        |
| 20       | Mechanical Seal Assembly              | 305452019     |                | Various                    |
| 21       | Packing Gland Assembly                | 305452020     |                | Various                    |
| 35       | Impeller Shaft Key                    | 305452011     |                | 316 Stainless Steel        |
| 90       | Mechanical Shaft Seal                 | 305463017     |                | Carbon/Ceramic/Buna/316SS  |
| 100B     | Seal Box O-Ring (2-pack)              | 305463013     |                | Nitrile                    |
| 100C     | Volute Case Square-Ring (2-pack)      | 305463021     |                | Nitrile                    |
| 110 /550 | Nameplate FPS and Drive Screws        | 305463005     |                | Stainless / Zinc plated    |
| 150A     | Tubing, Balance                       | 305463022     |                | Polypropylene              |
| 150B     | Hose Connector (2-pack)               | 305463023     |                | Bronze                     |
| 200      | Motor - See Motor Section             |               |                |                            |
| 500A     | Pipe Plug (4-pack)                    | 305463020     |                | Cad-Plated Steel           |
| 502      | Grease Fitting                        | 305463015     |                | Zinc Plated Steel          |
| 503      | Water Slinger                         | 305447008     |                | Neoprene                   |
| 510      | Impeller Hex Cap Screw                | 305463024     |                | 316 Stainless-Grade 5      |
| 520      | Impeller Washer                       | 305450015     |                | 300 Series Stainless Steel |
| 529      | Packing Gland Nut (4-pack)            | 305463007     |                | Zinc Plated Steel          |
| 530A     | Motor Bracket Hex Cap Screw (12-pack) | 305463026     | 305463025      | Zinc Plated Steel          |
| 530B     | Volute Case Hex Cap Screw (12 pack)   | 305463026     |                | Zinc Plated Steel          |
| 530C     | Seal Box Bolts (12-pack)              | 305463010     |                | Zinc Plated Steel          |
| 531      | Packing Gland Stud (4-pack)           | 305463008     |                | Zinc Plated Steel          |

