



TYPE "B" SINGLE STAGE CENTRIFUGAL PUMP Electric Motor Drive

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| Section | CC |
| Page | 30.1 |
| Date | January 1, 2004 |
| Supersedes 6/1/95 | |

CAST IRON IMPELLER

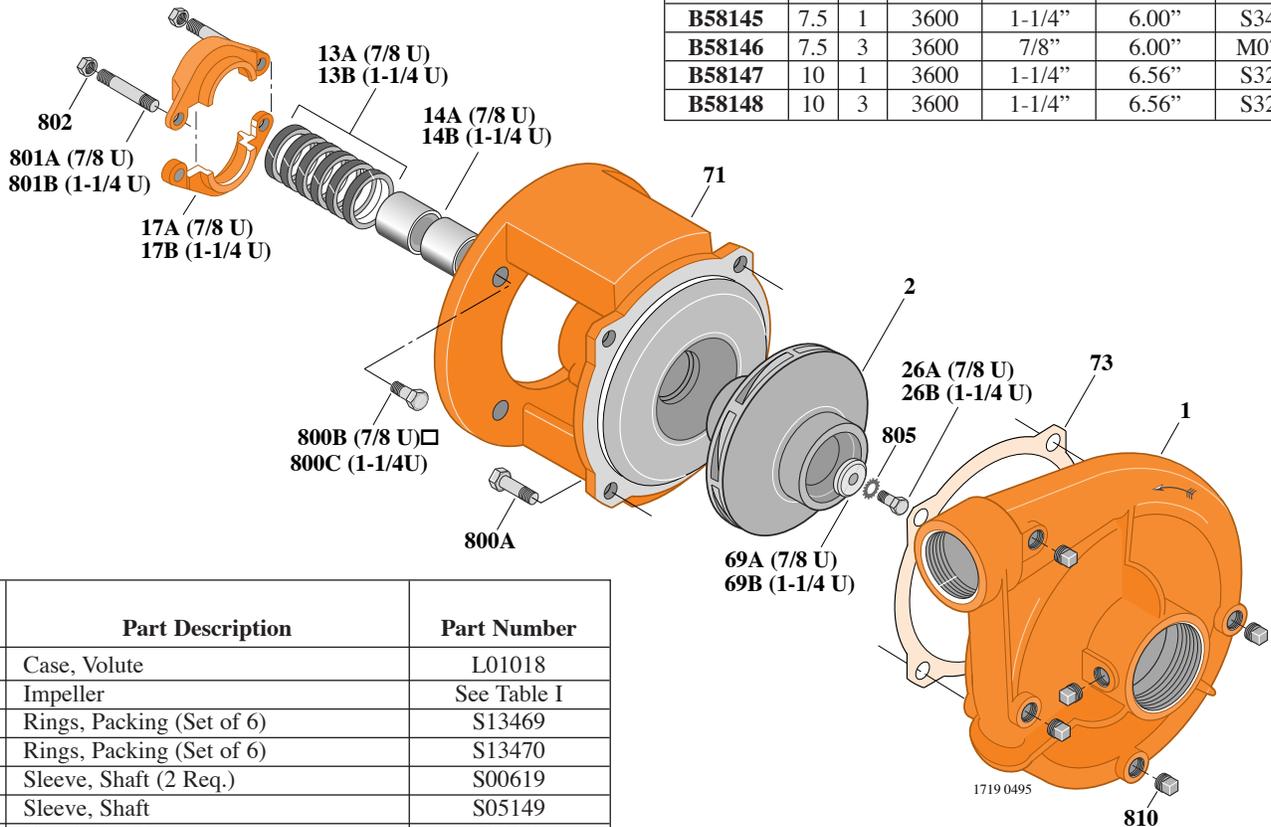
B1-1/2TPM

Threaded Case (NPT)

Packing Construction

TABLE I

| B/M No. | HP | PH | RPM | "U" Dim. | Imp. Dia. | Imp. No. |
|---------|-----|----|------|----------|-----------|----------|
| B58143 | 5 | 1 | 3600 | 7/8" | 5.50" | M07637 |
| B58144 | 5 | 3 | 3600 | 7/8" | 5.50" | M07637 |
| B58145 | 7.5 | 1 | 3600 | 1-1/4" | 6.00" | S34238 |
| B58146 | 7.5 | 3 | 3600 | 7/8" | 6.00" | M07638 |
| B58147 | 10 | 1 | 3600 | 1-1/4" | 6.56" | S32401 |
| B58148 | 10 | 3 | 3600 | 1-1/4" | 6.56" | S32401 |



| Item No. | Part Description | Part Number |
|----------|------------------------------------|--------------|
| 1 | Case, Volute | L01018 |
| 2 | Impeller | See Table I |
| 13A | Rings, Packing (Set of 6) | S13469 |
| 13B | Rings, Packing (Set of 6) | S13470 |
| 14A | Sleeve, Shaft (2 Req.) | S00619 |
| 14B | Sleeve, Shaft | S05149 |
| 17A | Gland, Packing | B82469 |
| 17B | Gland, Packing | B82470 |
| 26A | Screw, Impeller, 3/8 - 16 x 1" | S23566 |
| 26B | Screw, Impeller 1/2 - 13 x 1" | S23619 |
| 32A | Key, 3/16 x 1-1/4" (See Note) | S34383 |
| 32B | Key, 1/4 x 2-1/4" (See Note) | S23677 |
| 69A | Washer, Impeller | S16239 |
| 69B | Washer, Impeller | S06317 |
| 71 | Bracket | See Table II |
| 73 | Gasket, Volute | S04757 |
| 800A | Capscrew, 1/2 - 13 x 1" (4 Req.) | S26912 |
| 800B | Capscrew, 1/2 - 13 x 1" (8 Req.) | S26912 |
| 800C | Capscrew, 3/8 - 16 x 7/8" (4 Req.) | S26825 |
| 801A | Stud, 3/8 - 16 x 4" (2 Req.) | S08303 |
| 801B | Stud, 3/8 - 16 x 3-1/2" (2 Req.) | S04441 |
| 802 | Nut, Hex 3/8 - 16 (2 Req.) | S23343 |
| 805 | Washer, Lock | S23038 |
| 810 | Plug, Pipe 1/4 NPT (5 Req.) | S23715 |

TABLE II

| HP | PH | Bracket No. | "AK" Fit | "U" Dim. | Motor Frame |
|-----|----|-------------|----------|----------|-------------|
| 5 | 1 | L01525 | 4-1/2" | 7/8" | 184JP |
| 5 | 3 | L01525 | 4-1/2" | 7/8" | 182JP |
| 7.5 | 1 | L01951 | 8-1/2" | 1-1/4" | 213JP |
| 7.5 | 3 | L01525 | 4-1/2" | 7/8" | 184JP |
| 10 | 1 | L01951 | 8-1/2" | 1-1/4" | 215JP |
| 10 | 3 | L01951 | 8-1/2" | 1-1/4" | 213JP |

NOTE: For an explanation of the tabulated material found on this page and for impeller key location, refer to *Supplement A* located at the beginning of this section.



TYPE "B" SINGLE STAGE CENTRIFUGAL PUMP Electric Motor Drive

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CAST IRON IMPELLER

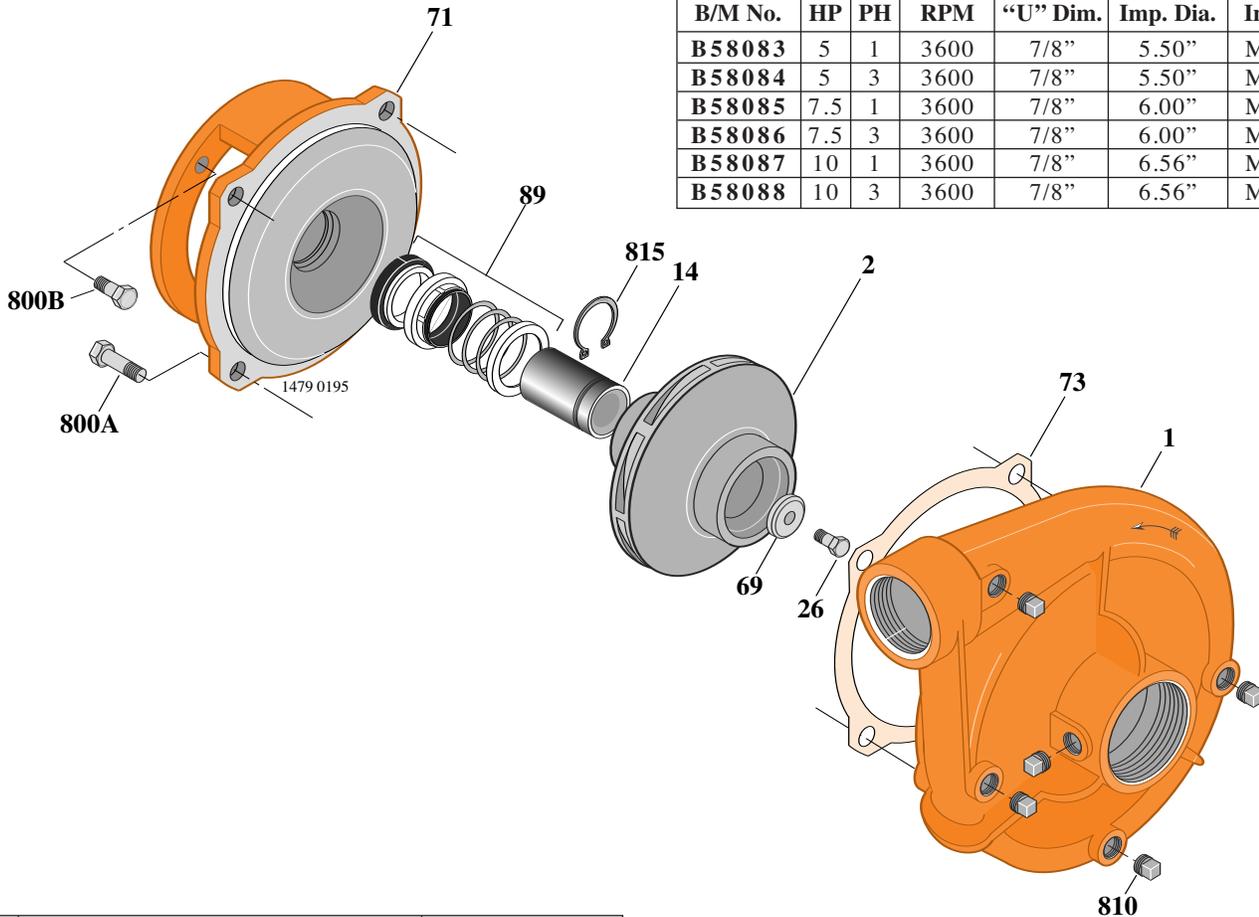
B1-1/2TPMS

Threaded Case (NPT)

Mechanical Shaft Seal Construction

TABLE I

| B/M No. | HP | PH | RPM | "U" Dim. | Imp. Dia. | Imp. No. |
|---------------|-----|----|------|----------|-----------|----------|
| B58083 | 5 | 1 | 3600 | 7/8" | 5.50" | M07637 |
| B58084 | 5 | 3 | 3600 | 7/8" | 5.50" | M07637 |
| B58085 | 7.5 | 1 | 3600 | 7/8" | 6.00" | M07638 |
| B58086 | 7.5 | 3 | 3600 | 7/8" | 6.00" | M07638 |
| B58087 | 10 | 1 | 3600 | 7/8" | 6.56" | M07298 |
| B58088 | 10 | 3 | 3600 | 7/8" | 6.56" | M07298 |



| Item No. | Part Description | Part Number |
|----------|----------------------------------|--------------|
| 1 | Case, Volute | L01018 |
| 2 | Impeller | See Table I |
| 14 | Sleeve, Shaft (See Note 2) | S19310L |
| 26 | Screw, Impeller 3/8 - 16 x 1" | S23566 |
| 32 | Key, 3/16 x 1-1/4" (See Note 1) | S34383 |
| 69 | Washer, Impeller | S16239 |
| 71 | Bracket | See Table II |
| 73 | Gasket, Volute | S04757 |
| 89 | Seal, Mechanical Shaft | S32014 |
| 800A | Capscrew, 1/2 - 13 x 1" (8 Req.) | S26912 |
| 800B | Capscrew, 3/8 - 16 x 1" (4 Req.) | S26826 |
| 810 | Plug, Pipe 1/4 NPT (5 Req.) | S23715 |
| 815 | Ring, Retaining | S11207 |

TABLE II

| HP | PH | Bracket No. | "AK" Fit | "U" Dim. | Motor Frame |
|-----|----|-------------|----------|----------|-------------|
| 5 | 1 | L05329 | 4-1/2" | 7/8" | 184JM |
| 5 | 3 | L05329 | 4-1/2" | 7/8" | 182JM |
| 7.5 | 1 | L05328 | 8-1/2" | 7/8" | 213JM |
| 7.5 | 3 | L05329 | 4-1/2" | 7/8" | 184JM |
| 10 | 1 | L05328 | 8-1/2" | 7/8" | 215JM |
| 10 | 3 | L05328 | 8-1/2" | 7/8" | 213JM |

NOTE 1: For an explanation of the tabulated material found on this page and for impeller key location, refer to *Supplement A* located at the beginning of this section.

NOTE 2: Sleeve replacement kit available. Berkeley part number B85681 includes the shaft sleeve, adhesive compound and instruction sheet.



TYPE "B" SINGLE STAGE CENTRIFUGAL PUMP Electric Motor Drive

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BRONZE IMPELLER

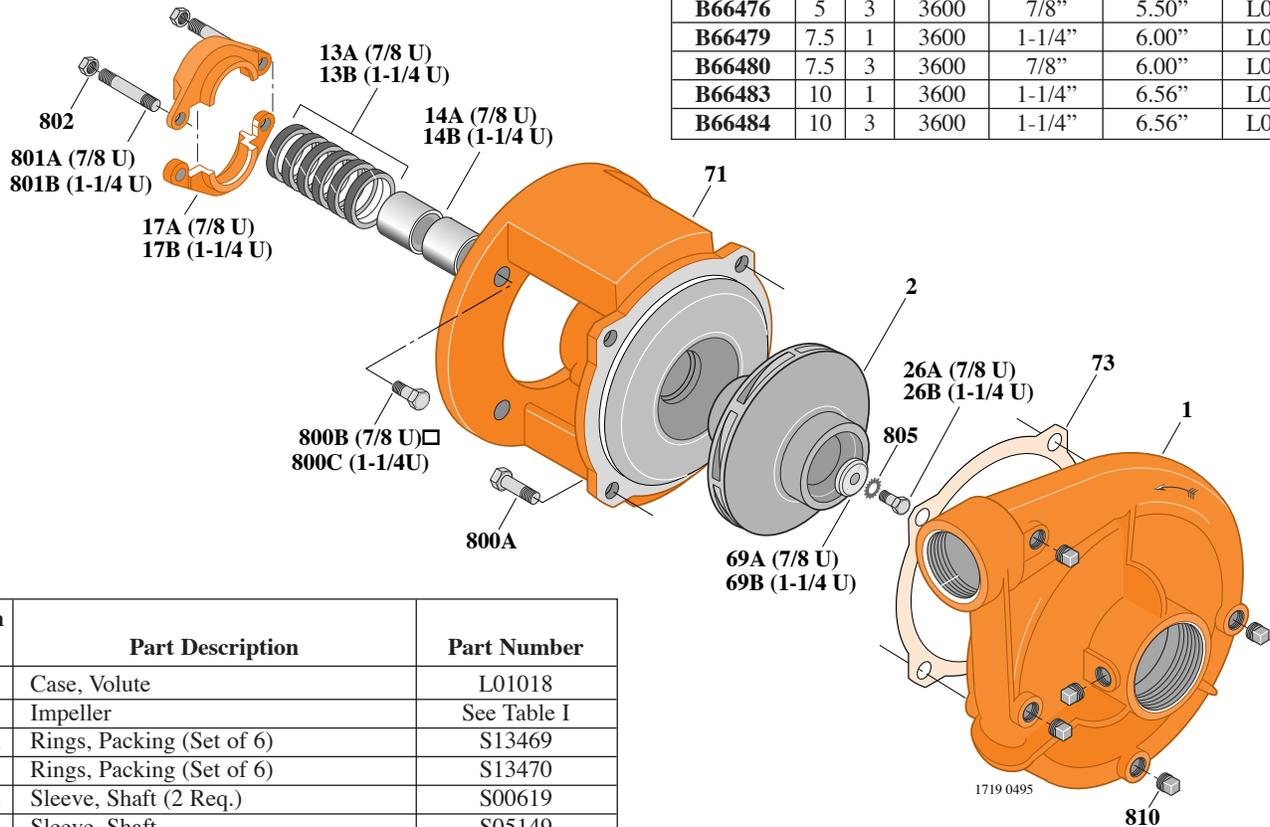
B1-1/2TPM

Threaded Case (NPT)

Packing Construction

TABLE I

| B/M No. | HP | PH | RPM | "U" Dim. | Imp. Dia. | Imp. No. |
|---------------|-----|----|------|----------|-----------|----------|
| B66475 | 5 | 1 | 3600 | 7/8" | 5.50" | L08179 |
| B66476 | 5 | 3 | 3600 | 7/8" | 5.50" | L08179 |
| B66479 | 7.5 | 1 | 3600 | 1-1/4" | 6.00" | L08151 |
| B66480 | 7.5 | 3 | 3600 | 7/8" | 6.00" | L08177 |
| B66483 | 10 | 1 | 3600 | 1-1/4" | 6.56" | L08150 |
| B66484 | 10 | 3 | 3600 | 1-1/4" | 6.56" | L08150 |



| Item No. | Part Description | Part Number |
|----------|------------------------------------|--------------|
| 1 | Case, Volute | L01018 |
| 2 | Impeller | See Table I |
| 13A | Rings, Packing (Set of 6) | S13469 |
| 13B | Rings, Packing (Set of 6) | S13470 |
| 14A | Sleeve, Shaft (2 Req.) | S00619 |
| 14B | Sleeve, Shaft | S05149 |
| 17A | Gland, Packing | B82469 |
| 17B | Gland, Packing | B82470 |
| 26A | Screw, Impeller, 3/8 - 16 x 1" | S23566 |
| 26B | Screw, Impeller 1/2 - 13 x 1" | S23619 |
| 32A | Key, 3/16 x 1-1/4" (See Note) | S34383 |
| 32B | Key, 1/4 x 2-1/4" (See Note) | S23677 |
| 69A | Washer, Impeller | S16239 |
| 69B | Washer, Impeller | S06317 |
| 71 | Bracket | See Table II |
| 73 | Gasket, Volute | S04757 |
| 800A | Capscrew, 1/2 - 13 x 1" (4 Req.) | S26912 |
| 800B | Capscrew, 1/2 - 13 x 1" (8 Req.) | S26912 |
| 800C | Capscrew, 3/8 - 16 x 7/8" (4 Req.) | S26825 |
| 801A | Stud, 3/8 - 16 x 4" (2 Req.) | S08303 |
| 801B | Stud, 3/8 - 16 x 3-1/2" (2 Req.) | S04441 |
| 802 | Nut, Hex 3/8 - 16 (2 Req.) | S23343 |
| 805 | Washer, Lock | S23038 |
| 810 | Plug, Pipe 1/4 NPT (5 Req.) | S23715 |

TABLE II

| HP | PH | Bracket No. | "AK" Fit | "U" Dim. | Motor Frame |
|-----|----|-------------|----------|----------|-------------|
| 5 | 1 | L01525 | 4-1/2" | 7/8" | 184JP |
| 5 | 3 | L01525 | 4-1/2" | 7/8" | 182JP |
| 7.5 | 1 | L01951 | 8-1/2" | 1-1/4" | 213JP |
| 7.5 | 3 | L01525 | 4-1/2" | 7/8" | 184JP |
| 10 | 1 | L01951 | 8-1/2" | 1-1/4" | 215JP |
| 10 | 3 | L01951 | 8-1/2" | 1-1/4" | 213JP |

NOTE: For an explanation of the tabulated material found on this page and for impeller key location, refer to *Supplement A* located at the beginning of this section.



TYPE "B" SINGLE STAGE CENTRIFUGAL PUMP Electric Motor Drive

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BRONZE IMPELLER

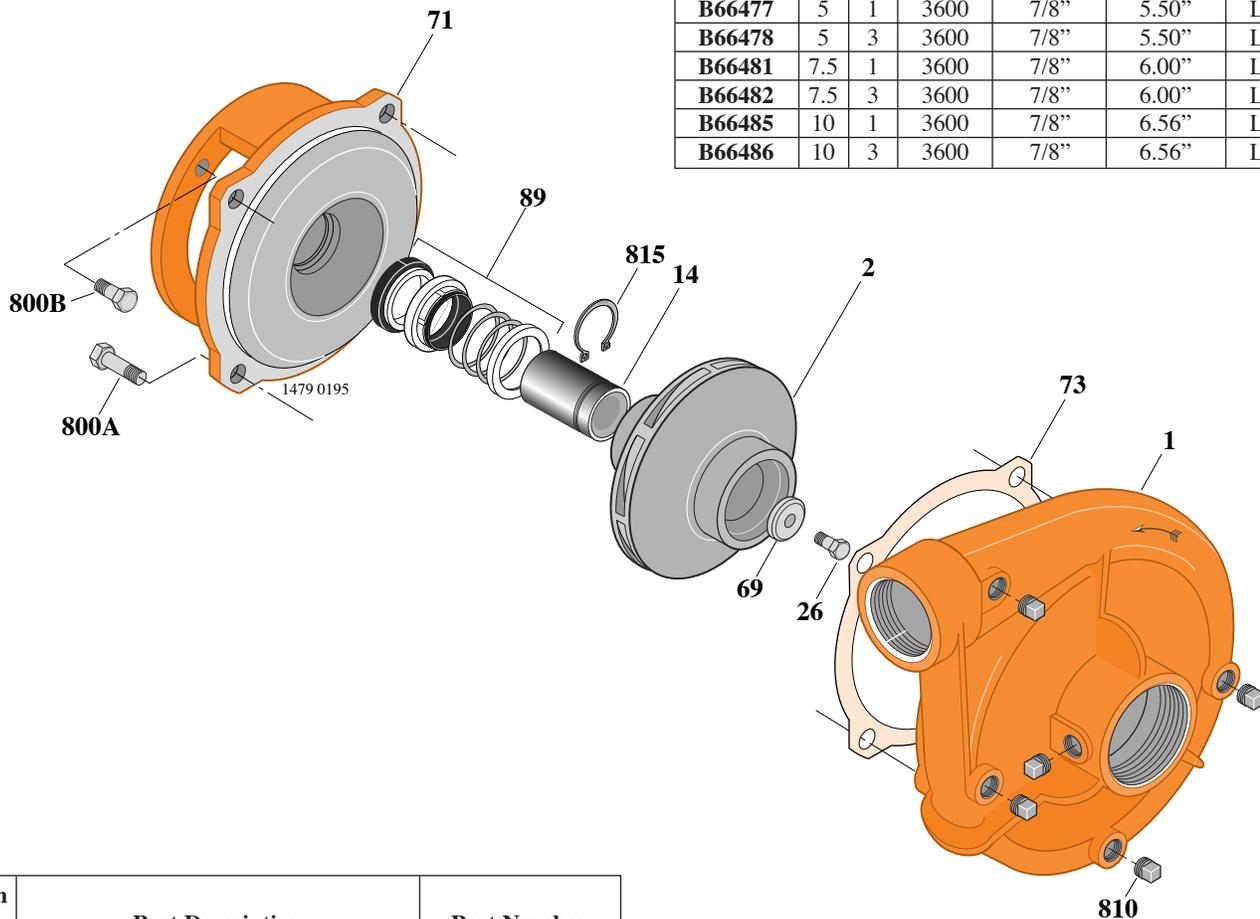
B1-1/2TPMS

Threaded Case (NPT)

Mechanical Shaft Seal Construction

TABLE I

| B/M No. | HP | PH | RPM | "U" Dim. | Imp. Dia. | Imp. No. |
|---------|-----|----|------|----------|-----------|----------|
| B66477 | 5 | 1 | 3600 | 7/8" | 5.50" | L08179 |
| B66478 | 5 | 3 | 3600 | 7/8" | 5.50" | L08179 |
| B66481 | 7.5 | 1 | 3600 | 7/8" | 6.00" | L08177 |
| B66482 | 7.5 | 3 | 3600 | 7/8" | 6.00" | L08177 |
| B66485 | 10 | 1 | 3600 | 7/8" | 6.56" | L08176 |
| B66486 | 10 | 3 | 3600 | 7/8" | 6.56" | L08176 |



| Item No. | Part Description | Part Number |
|----------|----------------------------------|--------------|
| 1 | Case, Volute | L01018 |
| 2 | Impeller | See Table I |
| 14 | Sleeve, Shaft | S19310 |
| 26 | Screw, Impeller 3/8 - 16 x 1" | S23566 |
| 32 | Key, 3/16 x 1-1/4" (See Note) | S34383 |
| 69 | Washer, Impeller | S16239 |
| 71 | Bracket | See Table II |
| 73 | Gasket, Volute | S04757 |
| 89 | Seal, Mechanical Shaft | S32014 |
| 800A | Capscrew, 1/2 - 13 x 1" (8 Req.) | S26912 |
| 800B | Capscrew, 3/8 - 16 x 1" (4 Req.) | S26826 |
| 810 | Plug, Pipe 1/4 NPT (5 Req.) | S23715 |
| 815 | Ring, Retaining | S11207 |

TABLE II

| HP | PH | Bracket No. | "AK" Fit | "U" Dim. | Motor Frame |
|-----|----|-------------|----------|----------|-------------|
| 5 | 1 | L05329 | 4-1/2" | 7/8" | 184JM |
| 5 | 3 | L05329 | 4-1/2" | 7/8" | 182JM |
| 7.5 | 1 | L05328 | 8-1/2" | 7/8" | 213JM |
| 7.5 | 3 | L05329 | 4-1/2" | 7/8" | 184JM |
| 10 | 1 | L05328 | 8-1/2" | 7/8" | 215JM |
| 10 | 3 | L05328 | 8-1/2" | 7/8" | 213JM |

NOTE: For an explanation of the tabulated material found on this page and for impeller key location, refer to *Supplement A* located at the beginning of this section.



TYPE "B" SINGLE STAGE CENTRIFUGAL PUMP Electric Motor Drive

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SILICON BRONZE IMPELLER

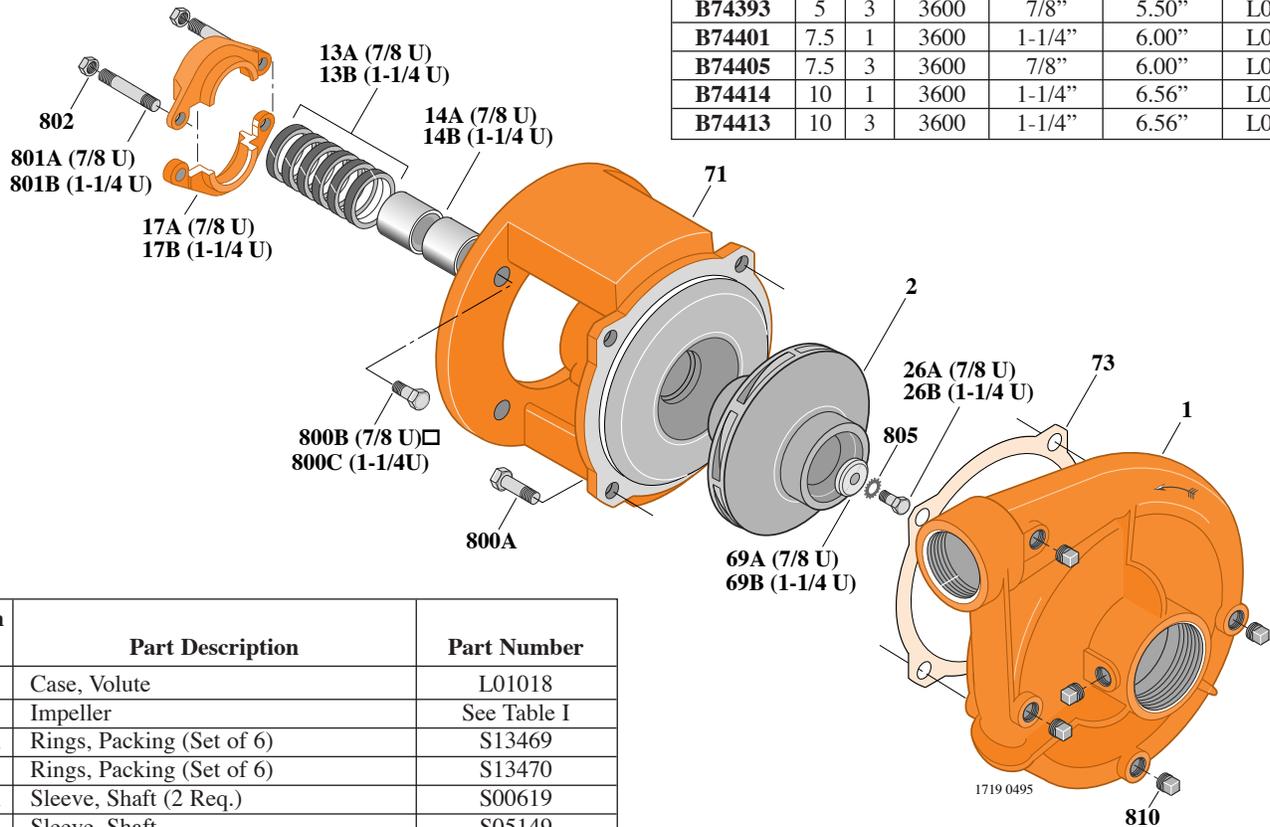
B1-1/2TPM

Threaded Case (NPT)

Packing Construction

TABLE I

| B/M No. | HP | PH | RPM | "U" Dim. | Imp. Dia. | Imp. No. |
|---------------|-----|----|------|----------|-----------|----------|
| B74394 | 5 | 1 | 3600 | 7/8" | 5.50" | L08179 |
| B74393 | 5 | 3 | 3600 | 7/8" | 5.50" | L08179 |
| B74401 | 7.5 | 1 | 3600 | 1-1/4" | 6.00" | L08151 |
| B74405 | 7.5 | 3 | 3600 | 7/8" | 6.00" | L08177 |
| B74414 | 10 | 1 | 3600 | 1-1/4" | 6.56" | L08150 |
| B74413 | 10 | 3 | 3600 | 1-1/4" | 6.56" | L08150 |



| Item No. | Part Description | Part Number |
|----------|------------------------------------|--------------|
| 1 | Case, Volute | L01018 |
| 2 | Impeller | See Table I |
| 13A | Rings, Packing (Set of 6) | S13469 |
| 13B | Rings, Packing (Set of 6) | S13470 |
| 14A | Sleeve, Shaft (2 Req.) | S00619 |
| 14B | Sleeve, Shaft | S05149 |
| 17A | Gland, Packing | B82469 |
| 17B | Gland, Packing | B82470 |
| 26A | Screw, Impeller, 3/8 - 16 x 1" | S23566 |
| 26B | Screw, Impeller 1/2 - 13 x 1" | S23619 |
| 32A | Key, 3/16 x 1-1/4" (See Note) | S34383 |
| 32B | Key, 1/4 x 2-1/4" (See Note) | S23677 |
| 69A | Washer, Impeller | S16239 |
| 69B | Washer, Impeller | S06317 |
| 71 | Bracket | See Table II |
| 73 | Gasket, Volute | S04757 |
| 800A | Capscrew, 1/2 - 13 x 1" (4 Req.) | S26912 |
| 800B | Capscrew, 3/8 - 16 x 7/8" (4 Req.) | S26825 |
| 800C | Capscrew, 1/2 - 13 x 1" (4 Req.) | S26912 |
| 801A | Stud, 3/8 - 16 x 4" (2 Req.) | S08303 |
| 801B | Stud, 3/8 - 16 x 3-1/2" (2 Req.) | S04441 |
| 802 | Nut, Hex 3/8 - 16 (2 Req.) | S23343 |
| 805 | Washer, Lock | S23038 |
| 810 | Plug, Pipe 1/4" NPT (5 Req.) | S23715 |

TABLE II

| HP | PH | Bracket No. | "AK" Fit | "U" Dim. | Motor Frame |
|-----|----|-------------|----------|----------|-------------|
| 5 | 1 | L01525 | 4-1/2" | 7/8" | 184JP |
| 5 | 3 | L01525 | 4-1/2" | 7/8" | 182JP |
| 7.5 | 1 | L01951 | 8-1/2" | 1-1/4" | 213JP |
| 7.5 | 3 | L01525 | 4-1/2" | 7/8" | 184JP |
| 10 | 1 | L01951 | 8-1/2" | 1-1/4" | 215JP |
| 10 | 3 | L01951 | 8-1/2" | 1-1/4" | 213JP |

NOTE: For an explanation of the tabulated material found on this page and for impeller key location, refer to *Supplement A* located at the beginning of this section.



TYPE "B" SINGLE STAGE CENTRIFUGAL PUMP Electric Motor Drive

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SILICON BRONZE IMPELLER

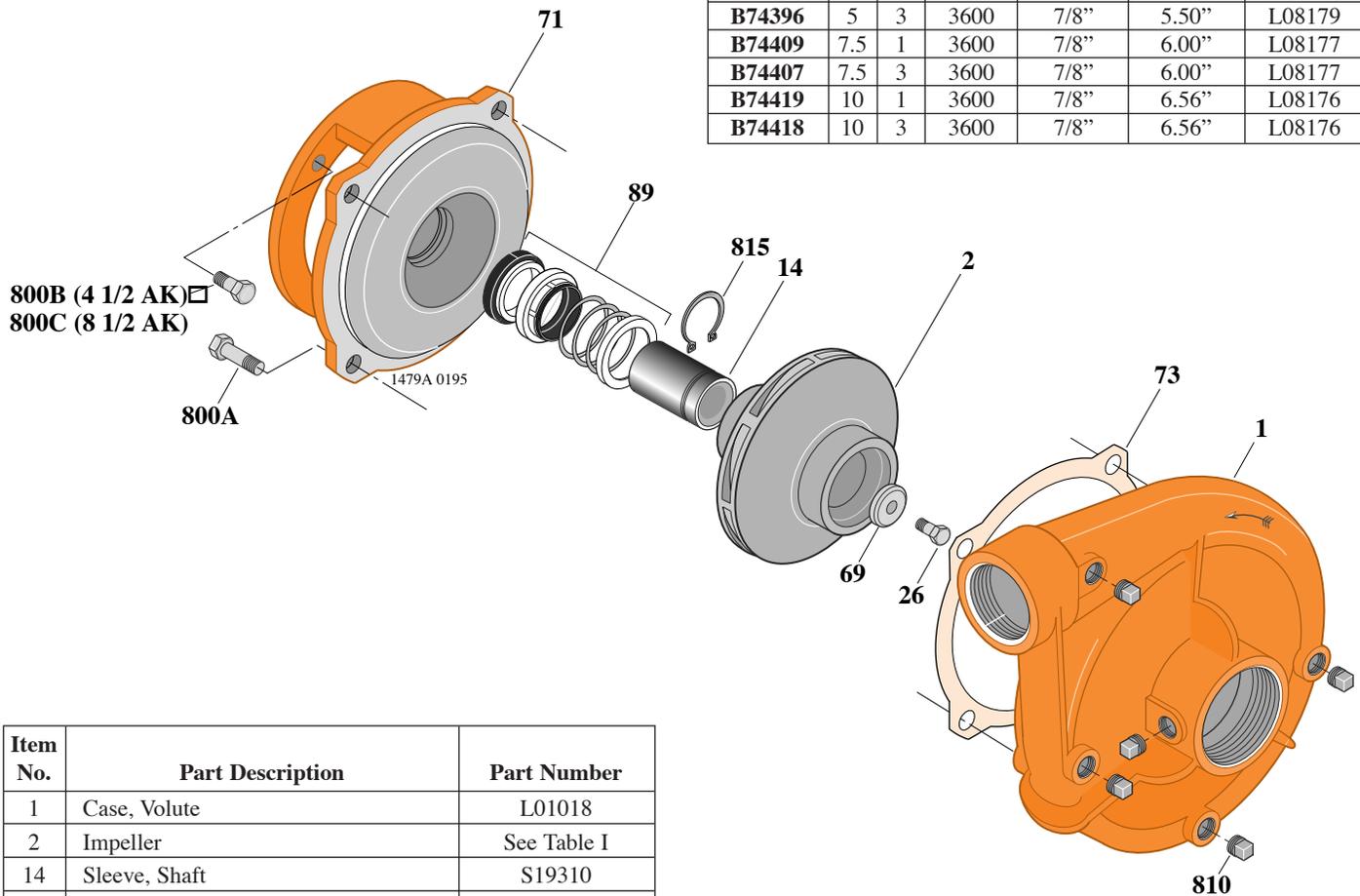
B1-1/2TPMS

Threaded Case (NPT)

Mechanical Shaft Seal Construction

TABLE I

| B/M No. | HP | PH | RPM | "U" Dim. | Imp. Dia. | Imp. No. |
|---------------|-----|----|------|----------|-----------|----------|
| B74397 | 5 | 1 | 3600 | 7/8" | 5.50" | L08179 |
| B74396 | 5 | 3 | 3600 | 7/8" | 5.50" | L08179 |
| B74409 | 7.5 | 1 | 3600 | 7/8" | 6.00" | L08177 |
| B74407 | 7.5 | 3 | 3600 | 7/8" | 6.00" | L08177 |
| B74419 | 10 | 1 | 3600 | 7/8" | 6.56" | L08176 |
| B74418 | 10 | 3 | 3600 | 7/8" | 6.56" | L08176 |



| Item No. | Part Description | Part Number |
|----------|----------------------------------|--------------|
| 1 | Case, Volute | L01018 |
| 2 | Impeller | See Table I |
| 14 | Sleeve, Shaft | S19310 |
| 26 | Screw, Impeller 3/8 - 16 x 1" | S23566 |
| 32 | Key, 3/16 x 1-1/4" (See Note) | S34383 |
| 69 | Washer, Impeller | S16239 |
| 71 | Bracket | See Table II |
| 73 | Gasket, Volute | S04757 |
| 89 | Seal, Mechanical Shaft | S32014 |
| 800A | Capscrew, 1/2 - 13 x 1" (4 Req.) | S26912 |
| 800B | Capscrew, 3/8 - 16 x 1" (4 Req.) | S26826 |
| 800C | Capscrew, 1/2 - 13 x 1" (4 Req.) | S26912 |
| 810 | Plug, Pipe 1/4" NPT (5 Req.) | S23715 |
| 815 | Ring, Retaining | S11207 |
| • | Plug, Pipe 1/8" NPT (In Bracket) | S23714 |

• Not illustrated.

TABLE II

| HP | PH | Bracket No. | "AK" Fit | "U" Dim. | Motor Frame |
|-----|----|-------------|----------|----------|-------------|
| 5 | 1 | L05329 | 4-1/2" | 7/8" | 184JM |
| 5 | 3 | L05329 | 4-1/2" | 7/8" | 182JM |
| 7.5 | 1 | L05328 | 8-1/2" | 7/8" | 213JM |
| 7.5 | 3 | L05329 | 4-1/2" | 7/8" | 184JM |
| 10 | 1 | L05328 | 8-1/2" | 7/8" | 215JM |
| 10 | 3 | L05328 | 8-1/2" | 7/8" | 213JM |

NOTE: For an explanation of the tabulated material found on this page and for impeller key location, refer to *Supplement A* located at the beginning of this section.

NOTE: For seal flush line details, see *Supplement D*.