

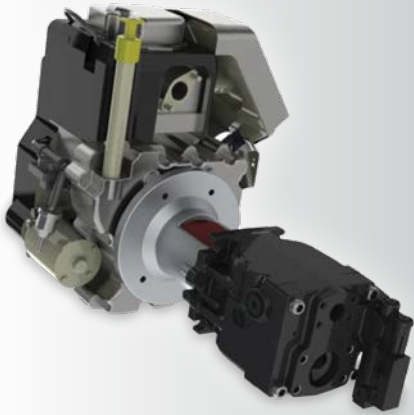
## Pump/Motor Mount Adaptors



## G & E SERIES MOUNTS

### G Series Mounts

G Series Motor Mounts fit most engines made by Honda, Briggs, Kohler, Kawasaki, and Subaru. These light weight aluminum castings mount directly to the engine pilot face and enable the drive of hydraulic pumps. Typically, a jaw coupling is provided with these castings as a kit.



### E Series Mounts

E Series Motor Mount Adapters fit NEMA "C" face motors (56C thru 405 TSC) and allows the drive of hydraulic pumps (hydraulic power units). Jaw couplings can also be provided with these castings.



**GUARDIAN COUPLINGS™**  
A REGAL REYNOLD BRAND

## GUARDIAN INDUSTRIES PUMP/MOTOR MOUNTS

Guardian Industries Pump/Motor Mounts are designed for use with small gas engines and electric motors, which allow a direct connection to a hydraulic pump. Our castings are manufactured from a lightweight, high strength aluminum alloy. We also offer cast iron for electric motor applications. Pump mounts include a custom molded access cover which allows for easy access to inspect the drive coupling. We offer two styles of covers which include: a snap in place design, and a bolted design.

### Additional Features & Advantages:

#### Lightweight

Castings are manufactured from a high strength aluminum alloy.

#### Appearance

Eliminates the use of coupling guards and shims. Castings are produced from a permanent mold casting process. We offer various finishes upon request.

#### Minimizes Vibration

All of our castings are precision machined to strict tolerances on our state of the art CNC Equipment. After leaving production they are thoroughly inspected by our quality department which uses a coordinate measuring machine (CMM). This accomplishes accurate alignment between the motor and the pump, and reduces premature failure to the coupling element.

#### Cost Effective

Guardian mounts provide a no-hassle assembly of the pump and the motor. It eliminates the use of shims, additional mounting fixtures or foot mounts. As a result our pump mounts save our customers in labor cost and provide a worry free mounting system.

### Availability:

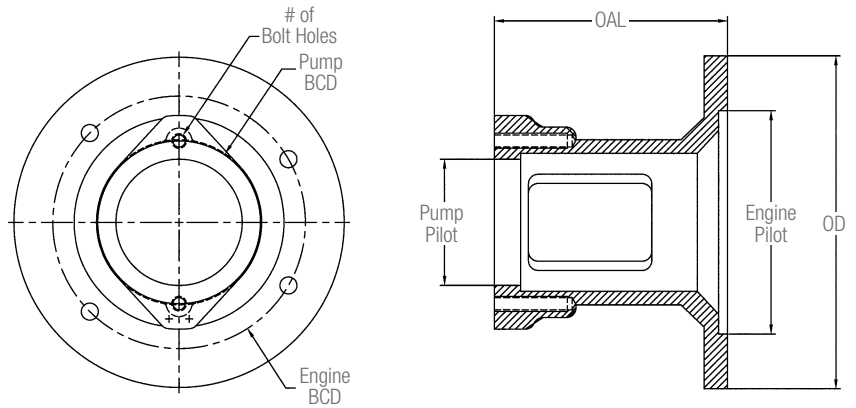
- Horizontal and vertical designs
- Connects to NEMA "C" Face Electric Motors (56C Thru 445TC)
- Connects to various small gas engines (i.e. Honda, Briggs & Stratton, Kohler, Wisconsin)
- Adapts to most SAE and Metric 2 and 4 bolt pump flanges
- Various lengths
- Custom applications, no problem!



## G SERIES MOUNTS

### Small Gas Engine Adaptors – Aluminum

Guardian Industries Pump/Motor Mounts are designed for use with many small gas engines such as: Honda, Briggs & Stratton, Kohler, Lombardini, Wisconsin, and many more! Our adaptors will allow a direct connection from the engine to a hydraulic pump. These mounts are manufactured from a lightweight, high strength aluminum alloy.



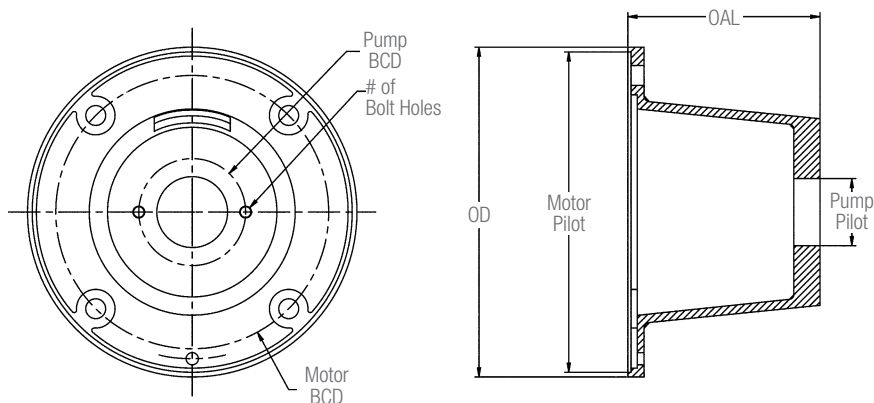
| FRAME # | PUMP DATA |            |       |       | ENGINE DATA |       | OD    | OAL   |       |
|---------|-----------|------------|-------|-------|-------------|-------|-------|-------|-------|
|         | SAE CODE  | # OF BOLTS | PILOT | BCD   | PILOT       | BCD   |       | SHORT | LONG  |
| GMR-98  | 4F17      | 4          | 1.780 | 2.838 | 5.750       | 6.500 | 7.250 | 4.080 |       |
| GMR-99  | AA        | 2          | 2.000 | 3.250 | 5.750       | 6.500 | 7.250 | 4.080 |       |
| G11-103 | 4F17      | 4          | 1.780 | 2.838 | NA          | 3.625 | NA    | 4.690 |       |
| G11-104 | 4F17      | 4          | 1.780 | 2.838 | 1.625       | 3.625 | NA    | 4.690 |       |
| G11-105 | AA        | 2          | 2.000 | 3.250 | NA          | 3.625 | NA    | 4.690 |       |
| G11-106 | AA        | 2          | 2.000 | 3.250 | 1.625       | 3.625 | NA    | 4.690 |       |
| G11-107 | A         | 2          | 3.250 | 4.188 | NA          | 3.625 | NA    | 4.690 |       |
| G11-108 | A         | 2          | 3.250 | 4.188 | 1.625       | 3.625 | NA    | 4.690 |       |
| G13-111 | 4F17      | 4          | 1.780 | 2.838 | 5.750       | 6.500 | 7.500 | 4.875 | 5.000 |
| G13-112 | AA        | 2          | 2.000 | 3.250 | 5.750       | 6.500 | 7.500 | 4.875 | 5.000 |
| G13-113 | A         | 2          | 3.250 | 4.188 | 5.750       | 6.500 | 7.500 | 4.875 | 5.000 |
| G16-119 | 4F17      | 4          | 1.780 | 2.838 | 5.750       | 6.500 | 8.500 | 5.625 | 6.000 |
| G16-120 | 4F17      | 4          | 1.780 | 2.838 | 7.000       | 7.750 | 8.500 | 5.625 | 6.000 |
| G16-124 | 4F17      | 4          | 1.780 | 2.838 | 6.438       | 7.750 | 8.500 | 5.625 | 6.000 |
| G16-127 | AA        | 2          | 2.000 | 3.250 | 5.750       | 6.500 | 8.500 | 5.625 | 6.000 |
| G16-128 | AA        | 2          | 2.000 | 3.250 | 7.000       | 7.750 | 8.500 | 5.625 | 6.000 |
| G16-131 | AA        | 2          | 2.000 | 3.250 | 6.438       | 7.750 | 8.500 | 5.625 | 6.000 |
| G16-134 | A         | 2          | 3.250 | 4.188 | 5.750       | 6.500 | 8.500 | 5.625 | 6.000 |
| G16-135 | A         | 2          | 3.250 | 4.188 | 7.000       | 7.750 | 8.500 | 5.625 | 6.000 |
| G16-138 | A         | 2          | 3.250 | 4.188 | 6.438       | 7.750 | 8.500 | 5.625 | 6.000 |
| G18-148 | A         | 2          | 3.250 | 4.187 | 5.750       | 6.500 | 8.500 | 6.500 | 6.750 |
| G18-149 | A         | 2          | 3.250 | 4.187 | 7.000       | 7.750 | 8.500 | 6.500 | 6.750 |
| G18-152 | A         | 2          | 3.250 | 4.187 | 6.438       | 7.750 | 8.500 | 6.500 | 6.750 |
| G18-155 | B         | 2          | 4.000 | 5.750 | 5.750       | 6.500 | 8.500 | 6.500 | 6.750 |
| G18-156 | B         | 2          | 4.000 | 5.750 | 7.000       | 7.750 | 8.500 | 6.500 | 6.750 |
| G18-159 | B         | 2          | 4.000 | 5.750 | 6.438       | 7.750 | 8.500 | 6.500 | 6.750 |
| G18-162 | B         | 4          | 4.000 | 5.000 | 5.750       | 6.500 | 8.500 | 6.500 | 6.750 |
| G18-163 | B         | 4          | 4.000 | 5.000 | 7.000       | 7.750 | 8.500 | 6.500 | 6.750 |
| G18-166 | B         | 4          | 4.000 | 5.000 | 6.438       | 7.750 | 8.500 | 6.500 | 6.750 |
| G21-197 | A         | 2          | 3.250 | 4.187 | 5.750       | 6.500 | 8.500 | 5.625 | 6.000 |
| G21-198 | A         | 2          | 3.250 | 4.187 | 7.000       | 7.750 | 8.500 | 5.625 | 6.000 |
| G21-201 | A         | 2          | 3.250 | 4.187 | 6.438       | 7.750 | 8.500 | 5.625 | 6.000 |
| G21-204 | B         | 2          | 4.000 | 5.750 | 5.750       | 6.500 | 8.500 | 5.625 | 6.000 |
| G21-205 | B         | 2          | 4.000 | 5.750 | 7.000       | 7.750 | 8.500 | 5.625 | 6.000 |
| G21-208 | B         | 2          | 4.000 | 5.750 | 6.438       | 7.750 | 8.500 | 5.625 | 6.000 |
| G33-232 | A         | 2          | 3.250 | 4.187 | 5.750       | 6.500 | 8.750 | 3.500 |       |
| G33-233 | A         | 2          | 3.250 | 4.187 | 7.000       | 7.750 | 8.750 | 3.500 |       |
| G33-234 | A         | 2          | 3.250 | 4.187 | 6.438       | 7.750 | 8.750 | 3.500 |       |



## E SERIES MOUNTS

### Electric Motor Adaptors – Cast Iron

Guardian Industries also offers cast iron pump/motor mounts which connect to NEMA-C face motors. Our adaptors allow a direct connection from the motor to a hydraulic pump. Although this will increase the total weight it offers superior strength and cost benefits over aluminum. We also shot blast and powder coat these for corrosion resistance and appearance.



#### 182 TC Thru 256 TC

| FRAME # | PUMP DATA |            |       |           | ENGINE DATA |       | OD    | OAL   |      |
|---------|-----------|------------|-------|-----------|-------------|-------|-------|-------|------|
|         | SAE CODE  | # OF BOLTS | PILOT | BCD       | PILOT       | BCD   |       | SHORT | LONG |
| E54CI-A | A         | 2          | 3.250 | 4.187     | 8.500       | 7.250 | 8.750 | 5.810 |      |
| E54CI-B | B         | 2/4        | 4.000 | 5.75/5.00 | 8.500       | 7.250 | 8.750 | 5.810 |      |
| E56CI-A | A         | 2          | 3.250 | 4.187     | 8.500       | 7.250 | 8.750 | 6.840 |      |
| E56CI-B | B         | 2/4        | 4.000 | 5.75/5.00 | 8.500       | 7.250 | 8.750 | 6.840 |      |

#### 284 TC/TSC Thru 286 TC/TSC

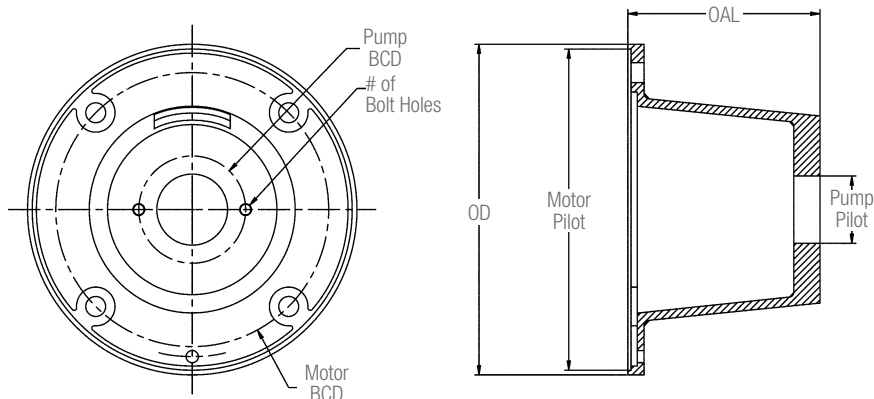
| FRAME # | PUMP DATA |            |       |             | ENGINE DATA |       | OD     | OAL   |      |
|---------|-----------|------------|-------|-------------|-------------|-------|--------|-------|------|
|         | SAE CODE  | # OF BOLTS | PILOT | BCD         | PILOT       | BCD   |        | SHORT | LONG |
| E63CI-B | B         | 2/4        | 4.000 | 5.75/5.00   | 10.500      | 9.000 | 11.000 | 8.000 |      |
| E63CI-C | C         | 2/4        | 5.000 | 7.125/6.375 | 10.500      | 9.000 | 11.000 | 8.000 |      |

#### 324 TC/TSC Thru 405 TC/TSC

| FRAME # | PUMP DATA |            |       |             | ENGINE DATA |        | OD     | OAL   |      |
|---------|-----------|------------|-------|-------------|-------------|--------|--------|-------|------|
|         | SAE CODE  | # OF BOLTS | PILOT | BCD         | PILOT       | BCD    |        | SHORT | LONG |
| E68CI-B | B         | 2/4        | 4.000 | 5.75/5.00   | 12.500      | 11.000 | 13.000 | 8.810 |      |
| E68CI-C | C         | 2/4        | 5.000 | 7.125/6.375 | 12.500      | 11.000 | 13.000 | 8.810 |      |
| E68CI-D | D         | 2/4        | 6.000 | 9.000       | 12.500      | 11.000 | 13.000 | 8.810 |      |

### Electric Motor Adaptors – Aluminum

Guardian Industries also offers aluminum pump/motor mounts which connect to NEMA-C face motors. Our adaptors allow a direct connection from the motor to a hydraulic pump. These pump mounts are made from a lightweight, high strength aluminum alloy.



#### 56 C Thru 143/145 TC

| FRAME #   | PUMP DATA |            |       |       | ENGINE DATA |       | OD    | OVERALL LENGTH |
|-----------|-----------|------------|-------|-------|-------------|-------|-------|----------------|
|           | SAE CODE  | # OF BOLTS | PILOT | BCD   | PILOT       | BCD   |       |                |
| E48X-4F17 | 4F17      | 4          | 1.780 | 2.838 | 4.500       | 5.875 | 6.500 | 3.250          |
| E48X-AA   | AA        | 2          | 2.000 | 3.250 | 4.500       | 5.875 | 6.640 | 3.250          |
| E48X-A    | A         | 2          | 3.250 | 4.187 | 4.500       | 5.875 | 6.640 | 3.250          |
| E49X-4F17 | 4F17      | 4          | 1.780 | 2.838 | 4.500       | 5.875 | 6.500 | 4.250          |
| E49X-AA   | AA        | 2          | 2.00  | 3.250 | 4.500       | 5.875 | 6.500 | 4.250          |
| E49X-A    | A         | 2          | 3.250 | 4.187 | 4.500       | 5.875 | 6.500 | 4.250          |
| E50-AA    | AA        | 2          | 2.000 | 3.250 | 4.500       | 5.875 | 6.640 | 4.140          |

**182–184 TC/TSC Thru 254–256 TC/TSC**

| FRAME #   | PUMP DATA |            |       |             | ENGINE DATA |       | OD    | OVERALL LENGTH |
|-----------|-----------|------------|-------|-------------|-------------|-------|-------|----------------|
|           | SAE CODE  | # OF BOLTS | PILOT | BCD         | PILOT       | BCD   |       |                |
| E51X–4F17 | 4F17      | 4          | 1.780 | 2.838       | 8.500       | 7.250 | 8.750 | 5.000          |
| E51X–AA   | AA        | 2          | 2.000 | 3.250       | 8.500       | 7.250 | 8.750 | 5.000          |
| E51X–A    | A         | 2          | 3.250 | 4.187       | 8.500       | 7.250 | 8.750 | 5.000          |
| E54X–A    | A         | 2          | 3.250 | 4.187       | 8.500       | 7.250 | 8.750 | 5.810          |
| E54X–B    | B         | 2/4        | 4.000 | 5.750/5.000 | 8.500       | 7.250 | 8.750 | 5.810          |
| E54X–C    | C         | 2          | 5.000 | 7.125       | 8.500       | 7.250 | 8.750 | 5.810          |
| E56X–A    | A         | 2          | 3.250 | 4.187       | 8.500       | 7.250 | 8.750 | 6.810          |
| E56X–B    | B         | 2/4        | 4.000 | 5.750/5.000 | 8.500       | 7.250 | 8.750 | 5.810          |
| E56X–C    | C         | 2          | 5.000 | 7.125       | 8.500       | 7.250 | 8.750 | 6.810          |
| E57S–4F17 | 4F17      | 4          | 1.780 | 2.838       | 8.500       | 7.250 | 8.750 | 4.860          |
| E57S–AA   | AA        | 2          | 2.000 | 3.250       | 8.500       | 7.250 | 8.750 | 4.860          |
| E57S–A    | A         | 2          | 3.250 | 4.187       | 8.500       | 7.250 | 8.750 | 4.860          |
| E57–AA    | AA        | 2          | 2.000 | 3.250       | 8.500       | 7.250 | 8.750 | 5.105          |
| E57–A     | A         | 2          | 3.250 | 4.187       | 8.500       | 7.250 | 8.750 | 5.105          |
| E57L–A    | A         | 2          | 3.250 | 4.187       | 8.500       | 7.250 | 8.750 | 5.930          |

**284 TC/TSC Thru 286 TC/TSC**

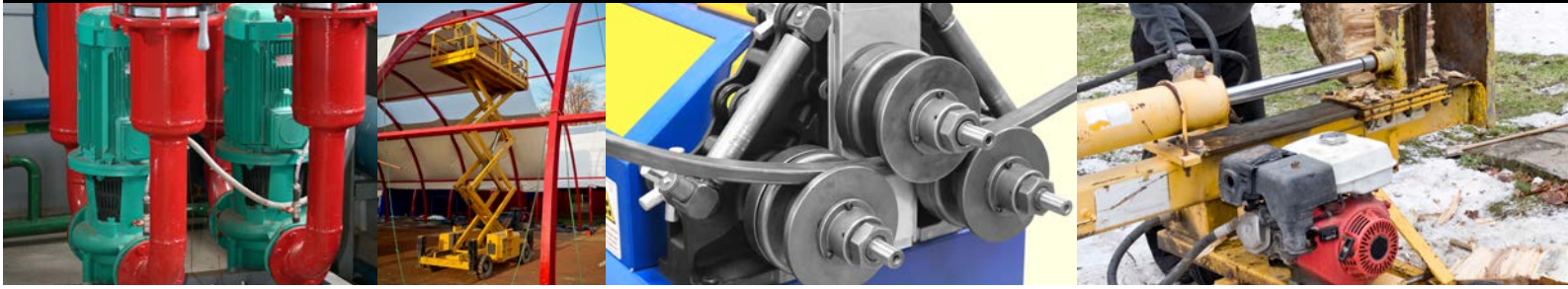
| FRAME # | PUMP DATA |            |       |             | ENGINE DATA |       | OD     | OVERALL LENGTH |
|---------|-----------|------------|-------|-------------|-------------|-------|--------|----------------|
|         | SAE CODE  | # OF BOLTS | PILOT | BCD         | PILOT       | BCD   |        |                |
| E62X–A  | A         | 2          | 3.250 | 4.187       | 10.500      | 9.000 | 11.000 | 6.870          |
| E62X–B  | B         | 2/4        | 4.000 | 5.750/5.000 | 10.500      | 9.000 | 11.000 | 6.870          |
| E62X–C  | C         | 2/4        | 5.000 | 7.125/6.375 | 10.500      | 9.000 | 11.000 | 6.870          |
| E63X–A  | A         | 2          | 3.250 | 4.187       | 10.500      | 9.000 | 11.000 | 8.680          |
| E63X–B  | B         | 2/4        | 4.000 | 5.750/5.000 | 10.500      | 9.000 | 11.000 | 8.680          |
| E63X–C  | C         | 2/4        | 5.000 | 7.125/6.375 | 10.500      | 9.000 | 11.000 | 8.680          |

**324 TC/TSC Thru 405 TC/TSC**

| FRAME # | PUMP DATA |            |       |             | ENGINE DATA |        | OD     | OVERALL LENGTH |
|---------|-----------|------------|-------|-------------|-------------|--------|--------|----------------|
|         | SAE CODE  | # OF BOLTS | PILOT | BCD         | PILOT       | BCD    |        |                |
| E65X–B  | B         | 2/4        | 4.000 | 5.750/5.000 | 12.500      | 11.000 | 13.060 | 7.620          |
| E65X–C  | C         | 2/4        | 5.000 | 7.125/6.375 | 12.500      | 11.000 | 13.060 | 7.620          |
| E65X–D  | D         | 2          | 6.000 | 9.000       | 12.500      | 11.000 | 13.060 | 7.620          |
| E66X–B  | B         | 2/4        | 4.000 | 5.750/5.000 | 12.500      | 11.000 | 13.060 | 8.750          |
| E66X–C  | C         | 2/4        | 5.000 | 7.125/6.375 | 12.500      | 11.000 | 13.060 | 8.750          |
| E66X–D2 | D         | 2          | 6.000 | 9.000       | 12.500      | 11.000 | 13.060 | 8.750          |
| E66X–D4 | D         | 4          | 6.000 | 9.000       | 12.500      | 11.000 | 13.060 | 8.750          |

**444 TSC Thru 445 TSC**

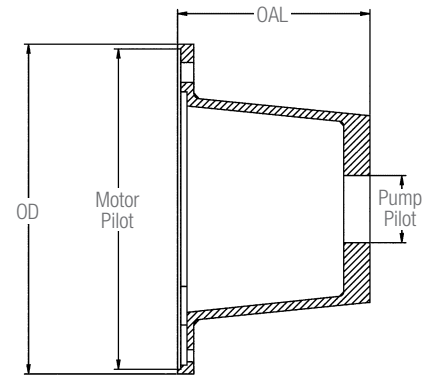
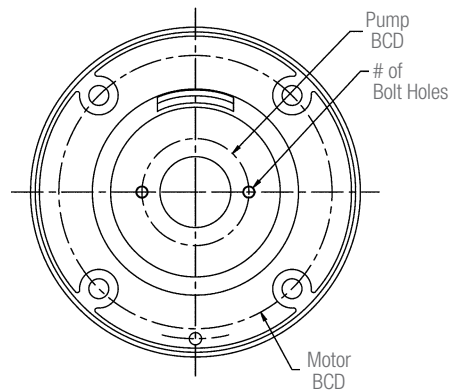
| FRAME # | PUMP DATA |            |       |             | ENGINE DATA |        | OD     | OVERALL LENGTH |
|---------|-----------|------------|-------|-------------|-------------|--------|--------|----------------|
|         | SAE CODE  | # OF BOLTS | PILOT | BCD         | PILOT       | BCD    |        |                |
| E76X–C  | C         | 2/4        | 5.000 | 7.125/6.375 | 16.000      | 14.000 | 16.750 | 8.750          |
| E76X–D  | D         | 2/4        | 6.000 | 9.000       | 16.000      | 14.000 | 16.750 | 8.750          |
| E76X–E  | E         | 2          | 6.500 | 12.500      | 16.000      | 14.000 | 16.750 | 8.750          |
| E76X–F  | F         | 2          | 7.000 | 13.781      | 16.000      | 14.000 | 16.750 | 8.750          |



## VERTICAL MOUNTS

### Electric Motor Adaptors – Aluminum

Guardian Industries also offers aluminum pump/motor mounts for vertical applications to connect to a NEMA-C face motor.

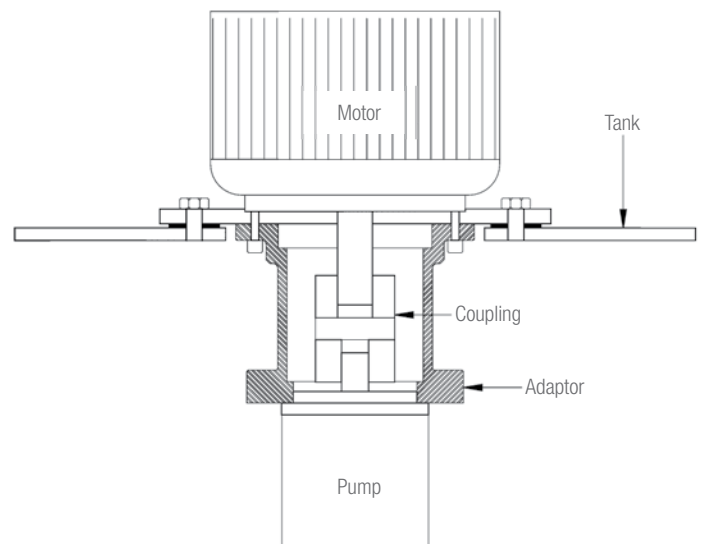


### 182 TC Thru 256 TC

| FRAME # | PUMP DATA |            |       |       | ENGINE DATA |       | OD    | OVERALL LENGTH |
|---------|-----------|------------|-------|-------|-------------|-------|-------|----------------|
|         | SAE CODE  | # OF BOLTS | PILOT | BCD   | PILOT       | BCD   |       |                |
| V75     | A         | 2          | 3.250 | 4.187 | 8.500       | 7.250 | 8.750 | 5.188          |

### Fabricated Vertical Mounts

For vertical applications, Guardian can custom fabricate mounts for NEMA "C" frames in the size 56 C to 405 C.





## CUSTOM ENGINEERED SOLUTIONS

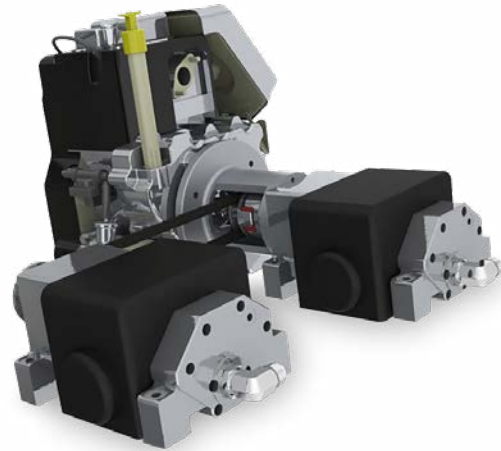
### Fabricated Adaptors

- Various mounting patterns and features for both the drive and driven components
- Adjustable lengths
- All steel construction
- Stainless steel available upon request



### Direct & Belt Drive Kit

- Direct mount to the motor and pump
- Open-faced adaptor which allows for clearance of the belt
- Specially machined belt groove on the coupling hub



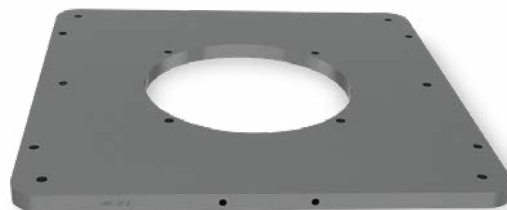
### Foot Mounted Bracket

- Fabricated foot mounted bracket for mounting a hydraulic pump
- Adjustable foot mounting distance and configurations

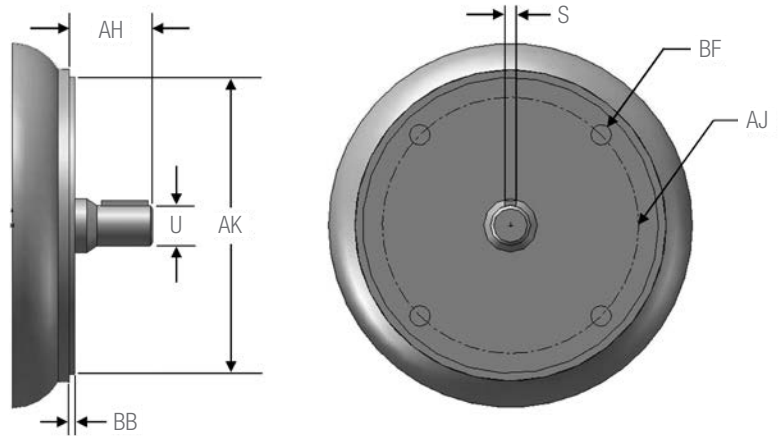


### Base Plates

- Various mounting configurations
- Various plate thickness



## ELECTRIC MOTOR INFORMATION



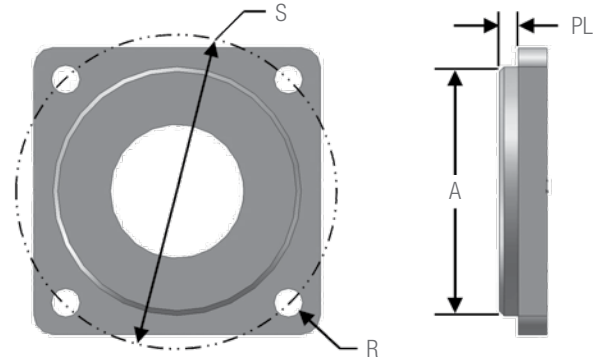
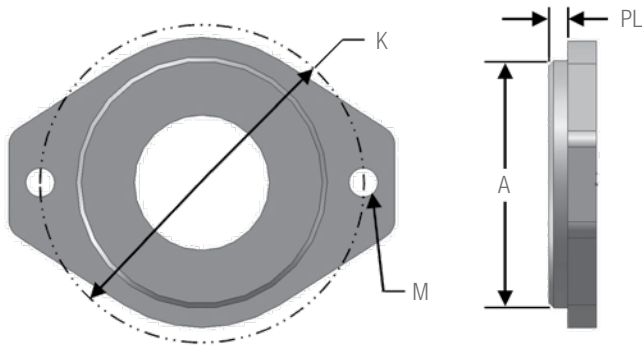
## “T” Frame Electric Motor Information

| NEMA   |       | BOLT<br>CIRCLE<br>(AJ) | PILOT<br>(AK) | PILOT<br>DEPTH<br>(BB) | SHAFT<br>DIAMETER<br>(U) | SHAFT<br>LENGTH<br>(AH) | KEY<br>WIDTH<br>(S) | TAPPED HOLES (BF) |        |                                  |
|--------|-------|------------------------|---------------|------------------------|--------------------------|-------------------------|---------------------|-------------------|--------|----------------------------------|
| MOTOR  | FRAME |                        |               |                        |                          |                         |                     | QTY               | SIZE   | BOLT<br>PENETRATION<br>ALLOWANCE |
| 284TSC | 56C   | 5-7/8                  | 4-1/2         | 0.16                   | 5/8                      | 2-1/16                  | 3/16                | 4                 | 3/8-16 | ---                              |
|        | 143TC | 5-7/8                  | 4-1/2         | 0.16                   | 7/8                      | 2-1/8                   | 3/16                | 4                 | 3/8-16 | 0.56                             |
|        | 145TC | 5-7/8                  | 4-1/2         | 0.16                   | 7/8                      | 2-1/8                   | 3/16                | 4                 | 3/8-16 | 0.56                             |
|        | 182TC | 7-1/4                  | 8-1/2         | 0.16                   | 1-1/8                    | 2-5/8                   | 1/4                 | 4                 | 1/2-13 | 0.75                             |
|        | 184TC | 7-1/4                  | 8-1/2         | 0.16                   | 1-1/8                    | 2-5/8                   | 1/4                 | 4                 | 1/2-13 | 0.75                             |
|        | 213TC | 7-1/4                  | 8-1/2         | 0.25                   | 1-3/8                    | 3-1/8                   | 5/16                | 4                 | 1/2-13 | 0.75                             |
|        | 215TC | 7-1/4                  | 8-1/2         | 0.25                   | 1-3/8                    | 3-1/8                   | 5/16                | 4                 | 1/2-13 | 0.75                             |
|        | 254TC | 7-1/4                  | 8-1/2         | 0.25                   | 1-5/8                    | 3-3/4                   | 3/8                 | 4                 | 1/2-13 | 0.75                             |
|        | 256TC | 7-1/4                  | 8-1/2         | 0.25                   | 1-5/8                    | 3-3/4                   | 3/8                 | 4                 | 1/2-13 | 0.75                             |
|        | 284TC | 9                      | 10-1/2        | 0.25                   | 1-7/8                    | 4-3/8                   | 1/2                 | 4                 | 1/2-13 | 0.75                             |
| 286TSC |       | 9                      | 10-1/2        | 0.25                   | 1-5/8                    | 3                       | 3/8                 | 4                 | 1/2-13 | 0.75                             |
|        | 286TC | 9                      | 10-1/2        | 0.25                   | 1-7/8                    | 4-3/8                   | 1/2                 | 4                 | 1/2-13 | 0.75                             |
| 324TSC | 324TC | 11                     | 12-1/2        | 0.25                   | 2-1/8                    | 5                       | 1/2                 | 4                 | 5/8-11 | 0.94                             |
|        |       | 11                     | 12-1/2        | 0.25                   | 1-7/8                    | 3-1/2                   | 1/2                 | 4                 | 5/8-11 | 0.94                             |
| 326TSC | 326TC | 11                     | 12-1/2        | 0.25                   | 2-1/8                    | 5                       | 1/2                 | 4                 | 5/8-11 | 0.94                             |
|        |       | 11                     | 12-1/2        | 0.25                   | 1-7/8                    | 3-1/2                   | 1/2                 | 4                 | 5/8-11 | 0.94                             |
| 364TSC | 364TC | 11                     | 12-1/2        | 0.25                   | 2-3/8                    | 5-5/8                   | 5/8                 | 8                 | 5/8-11 | 0.94                             |
|        |       | 11                     | 12-1/2        | 0.25                   | 1-7/8                    | 3-1/2                   | 1/2                 | 8                 | 5/8-11 | 0.94                             |
| 365TSC | 365TC | 11                     | 12-1/2        | 0.25                   | 2-3/8                    | 5-5/8                   | 5/8                 | 8                 | 5/8-11 | 0.94                             |
|        |       | 11                     | 12-1/2        | 0.25                   | 1-7/8                    | 3-1/2                   | 1/2                 | 8                 | 5/8-11 | 0.94                             |
| 404TSC | 404TC | 11                     | 12-1/2        | 0.25                   | 2-7/8                    | 7                       | 3/4                 | 8                 | 5/8-11 | 0.94                             |
|        |       | 11                     | 12-1/2        | 0.25                   | 2-1/8                    | 4                       | 1/2                 | 8                 | 5/8-11 | 0.94                             |
| 405TSC | 405TC | 11                     | 12-1/2        | 0.25                   | 2-7/8                    | 7                       | 3/4                 | 8                 | 5/8-11 | 0.94                             |
|        |       | 11                     | 12-1/2        | 0.25                   | 2-1/8                    | 4                       | 1/2                 | 8                 | 5/8-11 | 0.94                             |
| 444TSC | 444TC | 14                     | 16            | 0.25                   | 3-3/8                    | 8-1/4                   | 7/8                 | 8                 | 5/8-11 | 0.94                             |
|        |       | 14                     | 16            | 0.25                   | 2-3/8                    | 4-1/2                   | 5/8                 | 8                 | 5/8-11 | 0.94                             |
| 445TSC | 445TC | 14                     | 16            | 0.25                   | 3-3/8                    | 8-1/4                   | 7/8                 | 8                 | 5/8-11 | 0.94                             |
|        |       | 14                     | 16            | 0.25                   | 2-3/8                    | 4-1/2                   | 5/8                 | 8                 | 5/8-11 | 0.94                             |
| 447TSC | 447TC | 14                     | 16            | 0.25                   | 3-3/8                    | 8-1/4                   | 7/8                 | 8                 | 5/8-11 | 0.94                             |
|        |       | 14                     | 16            | 0.25                   | 2-3/8                    | 4-1/2                   | 5/8                 | 8                 | 5/8-11 | 0.94                             |
| 449TSC | 449TC | 14                     | 16            | 0.25                   | 3-3/8                    | 8-1/4                   | 7/8                 | 8                 | 5/8-11 | 0.94                             |
|        |       | 14                     | 16            | 0.25                   | 2-3/8                    | 4-1/2                   | 5/8                 | 8                 | 5/8-11 | 0.94                             |



**“U” Frame Electric Motor Information**

| NEMA   |       | BOLT CIRCLE (AJ) | PILOT (AK) | PILOT DEPTH (BB) | SHAFT DIAMETER (U) | SHAFT LENGTH (AH) | KEY WIDTH (S) | TAPPED HOLES (BF) |        |                            |
|--------|-------|------------------|------------|------------------|--------------------|-------------------|---------------|-------------------|--------|----------------------------|
| MOTOR  | FRAME |                  |            |                  |                    |                   |               | QTY               | SIZE   | BOLT PENETRATION ALLOWANCE |
| 324USC | 182UC | 5-7/8            | 4-1/2      | 0.16             | 7/8                | 2-1/8             | 3/16          | 4                 | 3/8-16 | 0.56                       |
|        | 184UC | 5-7/8            | 4-1/2      | 0.16             | 7/8                | 2-1/8             | 3/16          | 4                 | 3/8-16 | 0.56                       |
|        | 213UC | 7-1/4            | 8-1/2      | 0.25             | 1-1/8              | 2-3/4             | 1/4           | 4                 | 1/2-13 | 0.75                       |
|        | 215UC | 7-1/4            | 8-1/2      | 0.25             | 1-1/8              | 2-3/4             | 1/4           | 4                 | 1/2-13 | 0.75                       |
|        | 254UC | 7-1/4            | 8-1/2      | 0.25             | 1-3/8              | 3-1/2             | 5/16          | 4                 | 1/2-13 | 0.75                       |
|        | 256UC | 7-1/4            | 8-1/2      | 0.25             | 1-3/8              | 3-1/2             | 5/16          | 4                 | 1/2-13 | 0.75                       |
|        | 284UC | 9                | 10-1/2     | 0.25             | 1-5/8              | 4-5/8             | 3/8           | 4                 | 1/2-13 | 0.75                       |
|        | 286UC | 9                | 10-1/2     | 0.25             | 1-5/8              | 4-5/8             | 3/8           | 4                 | 1/2-13 | 0.75                       |
|        | 324UC | 11               | 12-1/2     | 0.25             | 1-7/8              | 5-3/8             | 1/2           | 4                 | 5/8-11 | 0.94                       |
|        | 326UC | 11               | 12-1/2     | 0.25             | 1-7/8              | 5-3/8             | 1/2           | 4                 | 5/8-11 | 0.94                       |
| 326USC |       | 11               | 12-1/2     | 0.25             | 1-5/8              | 3                 | 3/8           | 4                 | 5/8-11 | 0.94                       |
|        |       |                  |            |                  |                    |                   |               |                   |        |                            |
| 364USC | 364UC | 11               | 12-1/2     | 0.25             | 2-1/8              | 6-1/8             | 1/2           | 8                 | 5/8-11 | 0.94                       |
|        |       | 11               | 12-1/2     | 0.25             | 1-7/8              | 3-1/2             | 1/2           | 8                 | 5/8-11 | 0.94                       |
| 365USC | 365UC | 11               | 12-1/2     | 0.25             | 2-1/8              | 6-1/8             | 1/2           | 8                 | 5/8-11 | 0.94                       |
|        |       | 11               | 12-1/2     | 0.25             | 1-7/8              | 3-1/2             | 1/2           | 8                 | 5/8-11 | 0.94                       |
| 404USC | 404UC | 11               | 12-1/2     | 0.25             | 2-3/8              | 6-7/8             | 5/8           | 8                 | 5/8-11 | 0.94                       |
|        |       | 11               | 12-1/2     | 0.25             | 2-1/8              | 4                 | 1/2           | 8                 | 5/8-11 | 0.94                       |
| 405USC | 405UC | 11               | 12-1/2     | 0.25             | 2-3/8              | 6-7/8             | 5/8           | 8                 | 5/8-11 | 0.94                       |
|        |       | 11               | 12-1/2     | 0.25             | 2-1/8              | 4                 | 1/2           | 8                 | 5/8-11 | 0.94                       |
| 444USC | 444UC | 14               | 16         | 0.25             | 2-7/8              | 8-3/8             | 3/4           | 8                 | 5/8-11 | 0.94                       |
|        |       | 14               | 16         | 0.25             | 2-1/8              | 4                 | 1/2           | 8                 | 5/8-11 | 0.94                       |
|        | 445UC | 14               | 16         | 0.25             | 2-7/8              | 8-3/8             | 3/4           | 8                 | 5/8-11 | 0.94                       |
| 445USC |       | 14               | 16         | 0.25             | 2-1/8              | 4                 | 1/2           | 8                 | 5/8-11 | 0.94                       |

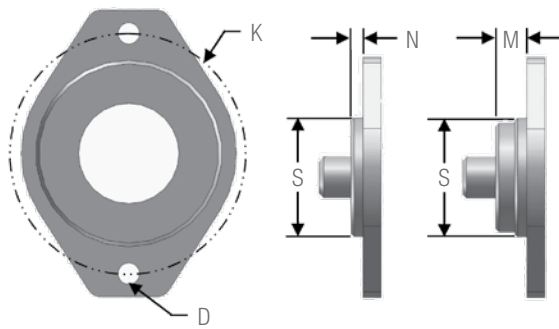
**PUMP MOUNTING FLANGE INFORMATION****SAE 2 Bolt Mounting Flanges**

| MOUNTING FLANGE |      |     | PILOT DIMENSIONS |        | FLANGE DIMENSIONS |  |
|-----------------|------|-----|------------------|--------|-------------------|--|
| ANSI            | USA  | SAE | A                | K      | M                 |  |
| 50-2            | —    | AA  | 2.000            | 3.250  | 0.406             |  |
| 82-2            | 2F32 | A   | 3.250            | 4.187  | 0.438             |  |
| 101-2           | 2F40 | B   | 4.000            | 5.750  | 0.562             |  |
| 127-2           | 2F50 | C   | 5.000            | 7.125  | 0.687             |  |
| 152-2           | 2F60 | D   | 6.000            | 9.000  | 0.812             |  |
| 165-2           | 2F65 | E   | 6.500            | 12.500 | 1.062             |  |
| 177-2           | 2F70 | F   | 7.000            | 13.781 | 1.062             |  |

**SAE 4 Bolt Mounting Flanges**

| MOUNTING FLANGE |      |     | PILOT DIMENSIONS |        | FLANGE DIMENSIONS |  |
|-----------------|------|-----|------------------|--------|-------------------|--|
| ANSI            | USA  | SAE | A                | S      | R                 |  |
| —               | 4F17 | AA  | 1.781            | 2.838  | 0.375             |  |
| 82-4            | 4F32 | A   | 3.250            | 4.125  | 0.438             |  |
| 101-4           | 4F40 | B   | 4.000            | 5.000  | 0.562             |  |
| 127-4           | 4F50 | C   | 5.000            | 6.375  | 0.562             |  |
| 152-4           | 4F60 | D   | 6.000            | 9.000  | 0.812             |  |
| 165-4           | 4F65 | E   | 6.500            | 12.500 | 0.812             |  |
| 177-4           | 4F70 | F   | 7.000            | 13.781 | 1.062             |  |

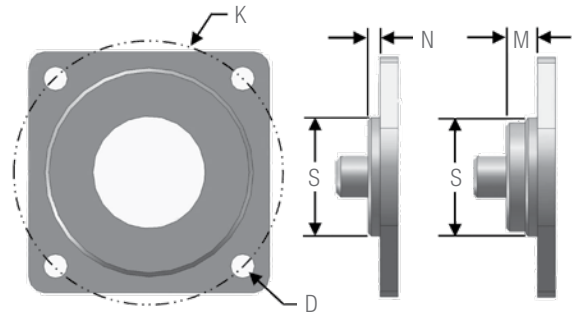
**Note:** Metric 2 & 4 bolt mounting may only be available for some configurations, please contact factory for further details.



**Metric 2 Bolt Mount (Oval)**

| MOUNTING FLANGE | PILOT<br>S | BOLT CIRCLE<br>K | HOLES<br>D | SHORT SPIGOT<br>N | LONG SPIGOT<br>M |
|-----------------|------------|------------------|------------|-------------------|------------------|
| 32 A2           | 32         | 56               | 6.6        | 8                 | 16               |
| 40 A2           | 40         | 63               | 6.6        | 8                 | 16               |
| 50 A2           | 50         | 80               | 9          | 8                 | 20               |
| 63 A2           | 63         | 100              | 9          | 8                 | 20               |
| 80 A2           | 80         | 109              | 11         | 8                 | 20               |
| 100 A2          | 100        | 140              | 14         | 10                | 25               |
| 112 A2          | 112        | 160              | 14         | 10                | 25               |
| 125 A2          | 125        | 180              | 18         | 10                | 32               |
| 140 A2          | 140        | 200              | 18         | 10                | 32               |
| 160 A2          | 160        | 224              | 22         | 10                | 40               |
| 180 A2          | 180        | 250              | 22         | 10                | 40               |
| 200 A2          | 200        | 280              | 26         | 10                | 50               |

(All dimensions in mm)

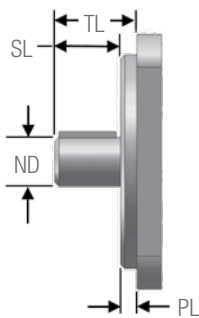


**Metric 4 Bolt Mount (Square)**

| MOUNTING FLANGE | PILOT<br>S | BOLT CIRCLE<br>K | HOLES<br>D | SHORT SPIGOT<br>N | LONG SPIGOT<br>M |
|-----------------|------------|------------------|------------|-------------------|------------------|
| 63 B4           | 63         | 85               | 9          | 8                 | 20               |
| 80 B4           | 80         | 103              | 9          | 8                 | 20               |
| 80 S4           | 80         | 100              | 9          | 8                 | 20               |
| 100 B4          | 100        | 125              | 11         | 10                | 25               |
| 112 B4          | 112        | 140              | 11         | 10                | 25               |
| 125 B4          | 125        | 160              | 14         | 10                | 32               |
| 140 B4          | 140        | 180              | 14         | 10                | 32               |
| 160 B4          | 160        | 200              | 18         | 10                | 40               |
| 180 B4          | 180        | 224              | 18         | 10                | 40               |
| 200 B4          | 200        | 250              | 22         | 10                | 50               |
| 224 B4          | 224        | 280              | 22         | 10                | 50               |
| 250 B4          | 250        | 315              | 26         | 10                | 50               |

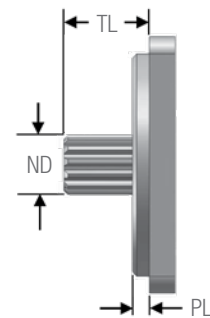
(All dimensions in mm)

## PUMP SHAFT INFORMATION



**Straight Shaft Types**

| DIA.  | SHORT SHAFT LENGTH | SHORT SHAFT | LONG SHAFT LENGTH | LONG SHAFT | KEY WIDTH | PILOT LENGTH |
|-------|--------------------|-------------|-------------------|------------|-----------|--------------|
| ND    | SL                 | TL          | SL                | TL         |           | PL           |
| 0.500 | 0.750              | 1.063       | —                 | —          | 0.125     | 0.250        |
| 0.625 | 0.938              | 1.250       | 2.000             | 2.313      | 0.156     | 0.250        |
| 0.750 | 0.938              | 1.250       | 2.000             | 2.313      | 0.187     | 0.250        |
| 0.875 | 1.312              | 1.625       | 2.500             | 2.813      | 0.250     | 0.375        |
| 1.000 | 1.500              | 1.812       | 2.750             | 3.063      | 0.250     | 0.375        |
| 1.250 | 1.875              | 2.187       | 3.000             | 3.313      | 0.312     | 0.500        |
| 1.500 | 2.125              | 2.437       | 3.250             | 3.563      | 0.375     | 0.500        |
| 1.750 | 2.625              | 2.937       | 3.625             | 3.938      | 0.437     | 0.500        |



**SAE Involute Spline Types**

| SAE CODE | # OF TEETH | DIA. PITCH<br>DP | PRESSURE ANGLE<br>PA | MAJOR DIA.<br>ND | TOTAL LENGTH<br>TL |
|----------|------------|------------------|----------------------|------------------|--------------------|
| AA       | 9          | 20/40            | 30°                  | 0.500            | 1.062              |
| A        | 9          | 16/32            | 30°                  | 0.625            | 1.250              |
| AH       | 11         | 16/32            | 30°                  | 0.750            | 1.250              |
| B        | 13         | 16/32            | 30°                  | 0.875            | 1.625              |
| BB       | 15         | 16/32            | 30°                  | 1.000            | 1.812              |
| C        | 14         | 12/24            | 30°                  | 1.250            | 2.187              |
| CS       | 21         | 16/32            | 30°                  | 1.375            | 2.187              |
| CC       | 17         | 12/24            | 30°                  | 1.500            | 2.437              |
| D        | 13         | 8/16             | 30°                  | 1.750            | 2.937              |
| E        | 13         | 8/16             | 30°                  | 1.750            | 2.937              |
| F        | 15         | 8/16             | 30°                  | 2.000            | 3.437              |



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