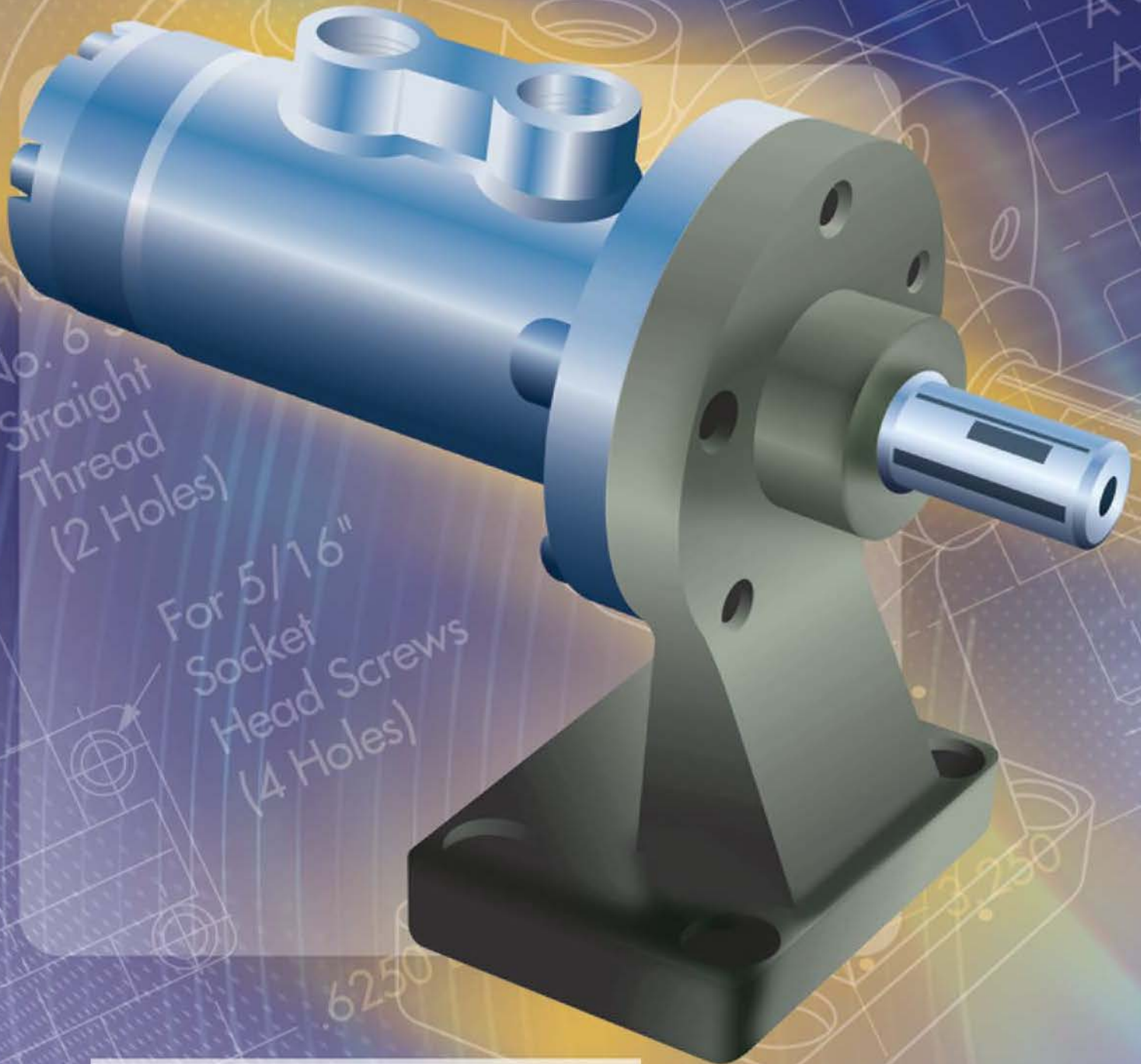




Anchor Lamina



Lamina Hydraulic Motors

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Check our website for the latest technical information.

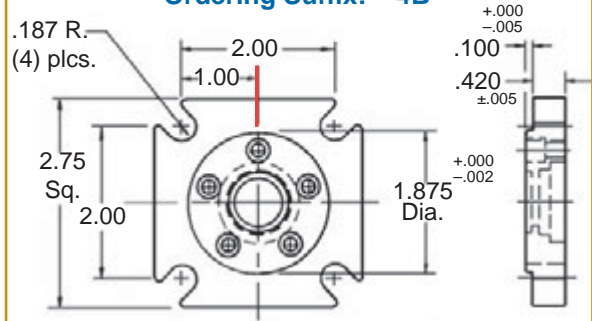
TYPICAL APPLICATIONS

Hydraulic motors manufactured by Lamina have a main shaft that can be readily adapted by use of chuck or collet to hold tools for rotary machining operations, such as drilling, boring, reaming and the like. The unusual small size of these motors makes them a natural choice for many applications.

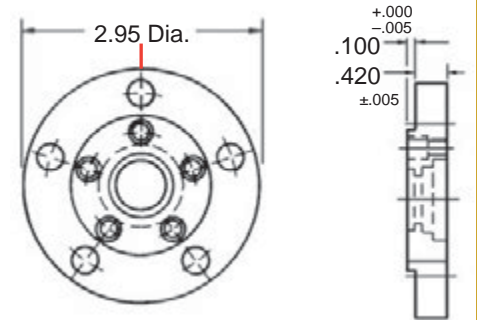
- Chicken processing machinery
- Reactor repair
- Plastic Injection molding, thread core remover
- Oil pipeline inspection equipment
- Box sealing equipment
- Tool manipulator, undersea, oil well
- Camera manipulator, undersea
- Camera manipulator, nuclear reactor
- Drill and tap machine tool
- Gang (multiple) drilling, wood
- Electric motor coil winder
- Electrical discharge (E.D.M.) machines
- Plywood machines (brushes)
- Jumbo jet maintenance jacks
- C.N.C., D.N.C., T.C. tool changer drives
- Orange peeling machines
- Sewing machines, automatic XY control
- Diamond wheel dresser
- Milling, sawing applications
- Fan drives
- Agricultural applications
- Conveyor drives
- Automatic clamping
- Drill pointer machines
- Textile washing agitators
- Pipe valve openers
- Dynamite blast hole pump drive
- Index mechanism
- Hose reel retraction

FLANGE OPTIONS

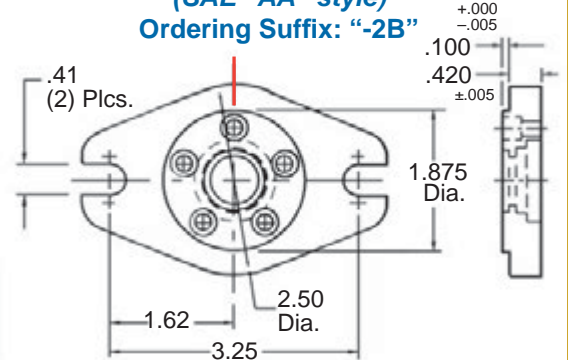
SQUARE FLANGE (USA4F17 style) Ordering Suffix: "-4B"



ROUND FLANGE Standard Flange – No ordering suffix



OVAL FLANGE (SAE "AA" style) Ordering Suffix: "-2B"



TURNED DOWN FLANGE Ordering Suffix "-T"



All flange styles are available in aluminum.
The port locations are identified by the red lines.

(All dimensions are in inches and are for reference only)

PART NUMBER LEGEND

Motor/Mounting Style

See page 3 for examples

Shaft Style

See page 3 (optional suffix)

Ordering Example: **A25FMO-T-2AV**

Gerotor Size

See pages 4-7 for more information

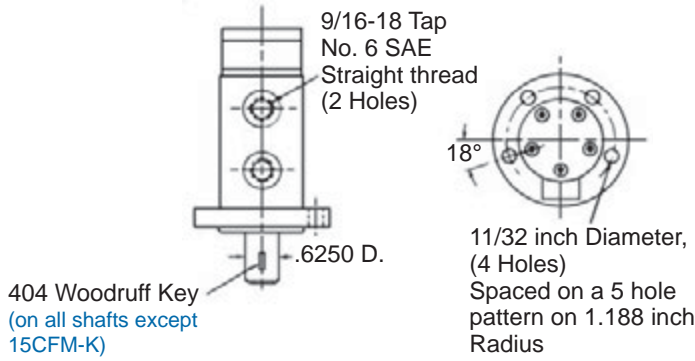
Flange Style

See this page for more information (optional suffix)

Material Options

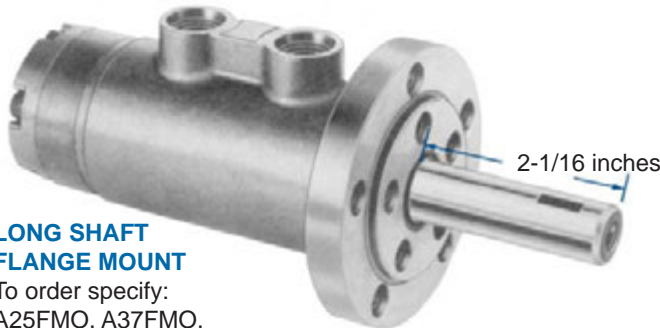
See page 7 for more information (optional suffix)

NOTE: FM style motors used with foot mounts are only available with Standard Round Flanges



SHORT SHAFT FLANGE MOUNT

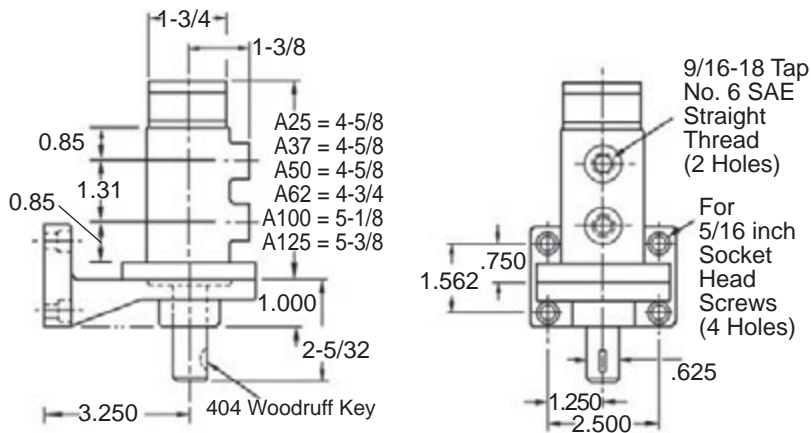
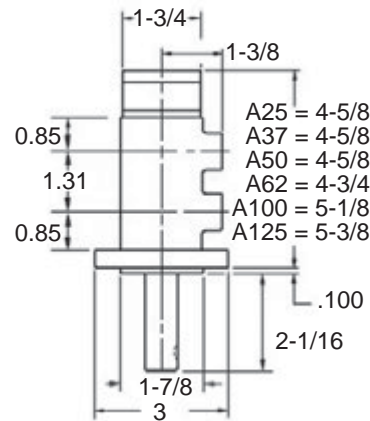
To order specify:
A25F, A37F, A50F,
A62F, A100F, A125F



LONG SHAFT FLANGE MOUNT

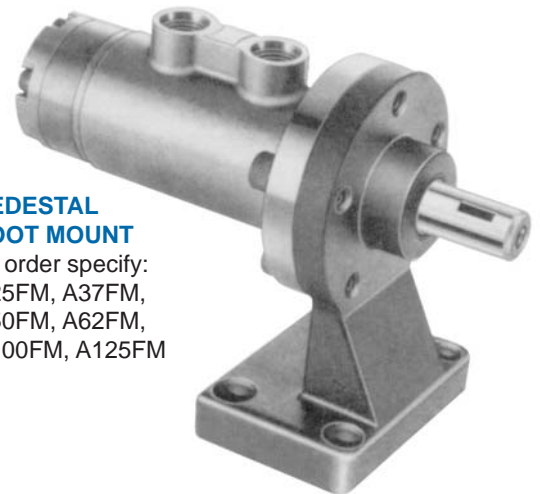
To order specify:
A25FMO, A37FMO,
A50FMO, A62FMO,
A100FMO, A125FMO

For direct bolt mounting, the motor flange has four thru-holes evenly spaced on a five-hole pattern. The smallest "A" type motor measures only 4-5/8 inches from face of mounting flange to end of motor. Other motors are of similar ultra-compact design.



PEDESTAL FOOT MOUNT

To order specify:
A25FM, A37FM,
A50FM, A62FM,
A100FM, A125FM



All dimensions are shown in inches and are for reference only.

Shaft Options (Standard shaft has no ordering suffix.)

2 Flats on Shaft (Specify Suffix "-2") (Diagram 1)

Hydraulic motors are available with two machined flats.

Tapped Holes on Ends of Shaft (Specify Suffix "-DT")

Hydraulic motors are also available with 1/4-20 tapped holes on the end of the shaft that are 7/8 inches deep. (Drawing not shown.)

Optional Larger Key on Shaft (Specify Suffix "-K") (Diagram 2)

Available for long shaft (FMO) motors only.

Note: The above options are stocked items. Any combination of these options will require lead time.

Diagram 1

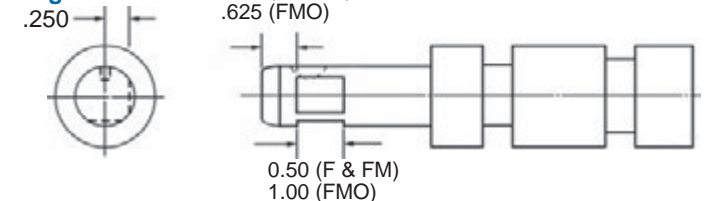
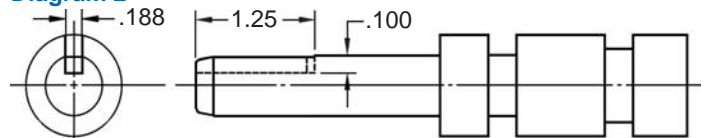


Diagram 2



ORDER MOTOR BY SIZE WITH SUFFIX:

“F” Flange Mount Short Shaft

“FM” Pedestal Foot Mount

“FMO” Flange Mount Long Shaft

Lamina Hydraulic Motors have a “letter-number-letter” designation that indicates the type of motor, size of gerotor, and mounting method required. For example: a motor having a 1/2 inch gerotor, a standard round flange and a short shaft, would be indicated as A50F.

Order motors with optional features according to the following suffixes:

- “-T” Turned down flange
- “-2B” Oval Flange
- “-4B” Square Flange
- “-2” Two flats on shaft
- “-DT” Shaft end tapped
- “-K” Longer Key
- “-A” Aluminum body and flange
- “-V” with Viton seal

Refer to example on bottom of page 2.

When selecting your motor for a specific application, you must remember that the peak motor torque and RPM must be sufficient to meet the most severe demands of the application.

TORQUE (Inch-pounds)

| G P M | RPM and TORQUE | A25 MOTOR | | | | | | | | | | | | | | |
|-------------|----------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|
| | | PSI | | | | | | | | | | | | | | |
| | | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
| 1 | RPM TORQUE | 314 6 | 298 17 | 282 27 | 265 37 | 249 47 | 233 58 | 216 68 | 200 78 | 184 88 | 168 98 | 151 109 | 135 119 | 119 129 | 103 139 | 86 149 |
| 2 | RPM TORQUE | 596 3 | 580 14 | 563 24 | 547 34 | 531 44 | 515 54 | 498 65 | 482 75 | 466 85 | 450 95 | 433 106 | 417 116 | 401 126 | 385 136 | 368 146 |
| 3 | RPM TORQUE | | 862 11 | 845 21 | 829 31 | 813 41 | 797 51 | 780 62 | 764 72 | 748 82 | 732 92 | 715 102 | 699 113 | 683 123 | 667 133 | 650 143 |
| 4 | RPM TORQUE | | 1144 8 | 1127 18 | 1111 28 | 1095 38 | 1079 48 | 1062 59 | 1046 69 | 1030 79 | 1014 89 | 997 99 | 981 110 | 965 120 | 948 130 | 932 140 |
| 5 | RPM TORQUE | | 1426 4 | 1409 15 | 1393 25 | 1377 35 | 1361 45 | 1344 56 | 1328 66 | 1312 76 | 1295 86 | 1279 96 | 1263 107 | 1247 117 | 1230 127 | 1214 137 |
| 6 | RPM TORQUE | | | 1691 12 | 1675 22 | 1659 32 | 1642 42 | 1626 52 | 1610 63 | 1594 73 | 1577 83 | 1561 93 | 1545 104 | 1529 114 | 1512 124 | 1496 134 |
| 7 | RPM TORQUE | | | 1973 9 | 1957 19 | 1941 29 | 1924 39 | 1908 49 | 1892 60 | 1876 70 | 1859 80 | 1843 90 | 1827 100 | 1811 111 | 1794 121 | 1778 131 |
| 8 | RPM TORQUE | | | 2255 5 | 2239 16 | 2223 26 | 2206 36 | 2190 46 | 2174 57 | 2158 67 | 2141 77 | 2125 87 | 2109 97 | 2093 108 | 2076 118 | 2060 128 |

TORQUE (Inch-pounds)

| G P M | RPM and TORQUE | A37 MOTOR | | | | | | | | | | | | | | |
|-------------|----------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | PSI | | | | | | | | | | | | | | |
| | | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
| 1 | RPM TORQUE | 210 14 | 201 29 | 192 44 | 183 59 | 173 74 | 164 88 | 155 103 | 146 118 | 136 133 | 127 148 | 118 163 | 109 178 | 100 192 | 90 207 | 81 222 |
| 2 | RPM TORQUE | 410 9 | 401 24 | 392 39 | 383 53 | 373 68 | 364 83 | 355 98 | 346 113 | 337 128 | 327 143 | 318 157 | 309 172 | 300 187 | 290 202 | 281 217 |
| 3 | RPM TORQUE | 610 4 | 601 18 | 592 33 | 583 48 | 573 63 | 564 78 | 555 93 | 546 108 | 537 122 | 527 137 | 518 152 | 509 167 | 500 182 | 490 197 | 481 212 |
| 4 | RPM TORQUE | | 801 13 | 792 28 | 783 43 | 773 58 | 764 73 | 755 87 | 746 102 | 737 117 | 727 132 | 718 147 | 709 162 | 700 177 | 690 192 | 681 206 |
| 5 | RPM TORQUE | | | 992 23 | 983 38 | 974 52 | 964 67 | 955 82 | 946 97 | 937 112 | 927 127 | 918 142 | 909 157 | 900 171 | 891 186 | 881 201 |
| 6 | RPM TORQUE | | | 1192 18 | 1183 32 | 1174 47 | 1164 62 | 1155 77 | 1146 92 | 1137 107 | 1127 122 | 1118 136 | 1109 151 | 1100 166 | 1091 181 | 1081 196 |
| 7 | RPM TORQUE | | | 1392 12 | 1383 27 | 1374 42 | 1364 57 | 1355 72 | 1346 87 | 1337 101 | 1327 116 | 1318 131 | 1309 146 | 1300 161 | 1291 176 | 1281 191 |
| 8 | RPM TORQUE | | | 1592 7 | 1583 22 | 1574 37 | 1564 52 | 1555 66 | 1546 81 | 1537 96 | 1528 111 | 1518 126 | 1509 141 | 1500 156 | 1491 170 | 1481 185 |

TORQUE (Inch-pounds)

| G P M | RPM and TORQUE | A50 MOTOR | | | | | | | | | | | | | | |
|-------------|----------------------|-----------|-----------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | PSI | | | | | | | | | | | | | | |
| | | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
| 1 | RPM TORQUE | 156 18 | 153 37 | 150 56 | 146 75 | 143 94 | 140 113 | 136 132 | 133 151 | 129 170 | 126 189 | 122 208 | 118 227 | 115 246 | 111 265 | 107 284 |
| 2 | RPM TORQUE | 306 15 | 302 34 | 299 52 | 296 71 | 292 90 | 289 109 | 285 128 | 282 147 | 278 166 | 275 185 | 271 205 | 267 224 | 264 243 | 260 262 | 256 281 |
| 3 | RPM TORQUE | 456 10 | 453 29 | 450 48 | 446 67 | 443 86 | 439 105 | 436 124 | 432 143 | 429 162 | 425 181 | 421 200 | 418 220 | 414 239 | 410 258 | 406 277 |
| 4 | RPM TORQUE | 608 5 | 605 24 | 601 43 | 598 62 | 595 81 | 591 100 | 588 119 | 584 138 | 580 157 | 577 177 | 573 196 | 569 215 | 566 234 | 562 253 | 558 272 |
| 5 | RPM TORQUE | | 752 19 | 750 38 | 747 57 | 745 76 | 743 95 | 741 114 | 737 133 | 733 152 | 730 171 | 726 190 | 722 209 | 718 228 | 714 247 | 710 267 |
| 6 | RPM TORQUE | | 902 12 | 901 31 | 900 50 | 898 69 | 895 88 | 892 107 | 890 127 | 888 146 | 884 165 | 880 184 | 877 203 | 873 222 | 869 242 | 865 261 |
| 7 | RPM TORQUE | | 1057 5 | 1053 24 | 1050 43 | 1048 62 | 1047 81 | 1046 100 | 1044 120 | 1042 139 | 1040 158 | 1036 177 | 1032 196 | 1028 215 | 1024 235 | 1020 254 |
| 8 | RPM TORQUE | | | 1206 16 | 1205 35 | 1204 54 | 1203 74 | 1202 93 | 1200 112 | 1198 131 | 1196 150 | 1193 169 | 1189 188 | 1186 208 | 1182 227 | 1178 246 |

TORQUE (Inch-pounds)

| G P M | RPM and TORQUE | A62 MOTOR | | | | | | | | | | | | | | |
|-------------|----------------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | PSI | | | | | | | | | | | | | | |
| | | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
| 1 | RPM TORQUE | 119 26 | 117 50 | 114 74 | 110 98 | 105 122 | 100 146 | 94 171 | 88 195 | 81 219 | 73 243 | 64 267 | 54 291 | 44 315 | 34 339 | 22 363 |
| 2 | RPM TORQUE | 236 22 | 233 46 | 230 70 | 227 95 | 222 119 | 217 143 | 211 167 | 204 191 | 197 215 | 188 239 | 180 263 | 170 287 | 160 311 | 149 335 | 137 360 |
| 3 | RPM TORQUE | 355 17 | 352 42 | 349 66 | 345 90 | 341 114 | 335 138 | 329 163 | 322 187 | 315 211 | 306 235 | 297 259 | 288 283 | 277 307 | 266 332 | 254 356 |
| 4 | RPM TORQUE | 476 12 | 474 36 | 471 60 | 467 84 | 462 109 | 456 133 | 450 157 | 443 181 | 435 206 | 427 230 | 418 254 | 408 278 | 397 302 | 386 327 | 374 351 |
| 5 | RPM TORQUE | 600 5 | 598 30 | 594 54 | 590 78 | 585 102 | 580 126 | 573 151 | 566 175 | 558 199 | 550 224 | 540 248 | 530 272 | 519 296 | 508 321 | 495 345 |
| 6 | RPM TORQUE | | 724 22 | 721 46 | 717 70 | 712 95 | 706 119 | 699 143 | 692 168 | 684 192 | 675 216 | 666 241 | 655 265 | 644 290 | 632 314 | 620 338 |
| 7 | RPM TORQUE | | 854 13 | 850 37 | 846 62 | 841 86 | 835 110 | 828 135 | 821 159 | 813 184 | 804 208 | 794 233 | 783 257 | 772 281 | 760 306 | 747 330 |
| 8 | RPM TORQUE | | | 982 27 | 978 52 | 973 76 | 967 101 | 960 125 | 952 150 | 944 174 | 935 199 | 925 223 | 914 248 | 902 272 | 890 297 | 877 321 |

The operational characteristics of various hydraulic motors are given in the tables to permit easy and quick selection of proper motor for each application. For accurate selection be certain to measure PSI across the motor. This will eliminate any error due to hydraulic system losses.

To order motor with a 2-1/6 inch shaft, order as FMO suffix (foot motor only).

TORQUE (Inch-pounds)

| G P M | RPM and TORQUE | A100 MOTOR | | | | | | | | | | | | | | |
|-------------|----------------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | PSI | | | | | | | | | | | | | | |
| | | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
| 1 | RPM TORQUE | 80 38 | 76 78 | 71 117 | 66 156 | 59 195 | 52 233 | 45 272 | 37 310 | 28 348 | 19 386 | 9 423 | | | | |
| 2 | RPM TORQUE | 151 35 | 147 74 | 142 114 | 136 153 | 129 192 | 122 231 | 115 269 | 106 308 | 98 346 | 88 384 | 78 422 | 67 459 | 56 496 | 44 534 | 31 570 |
| 3 | RPM TORQUE | 223 30 | 219 70 | 214 109 | 208 148 | 201 187 | 194 226 | 186 265 | 178 304 | 168 342 | 159 380 | 148 418 | 137 456 | 126 494 | 113 531 | 100 568 |
| 4 | RPM TORQUE | 297 23 | 293 63 | 287 103 | 281 142 | 275 181 | 267 220 | 259 259 | 250 298 | 241 337 | 231 375 | 220 413 | 209 451 | 197 489 | 185 527 | 171 564 |
| 5 | RPM TORQUE | 373 15 | 368 55 | 363 94 | 357 134 | 350 173 | 342 213 | 334 252 | 325 291 | 316 330 | 305 368 | 294 407 | 283 445 | 270 483 | 258 521 | 244 559 |
| 6 | RPM TORQUE | | 446 44 | 440 84 | 434 124 | 427 163 | 419 203 | 411 242 | 402 282 | 392 321 | 381 360 | 370 398 | 358 437 | 346 476 | 332 514 | 319 552 |
| 7 | RPM TORQUE | | 522 32 | 520 72 | 514 112 | 507 151 | 499 191 | 490 231 | 480 270 | 470 310 | 459 349 | 448 388 | 436 427 | 423 466 | 409 504 | 395 543 |
| 8 | RPM TORQUE | | 595 17 | 590 57 | 582 97 | 576 137 | 570 177 | 564 217 | 558 257 | 551 296 | 540 336 | 528 375 | 515 415 | 502 454 | 488 493 | 474 532 |

From the tables you can determine what is required of the hydraulic system (GPM & PSI) if you know the motor torque and RPM required by the application. Also, if you know the GPM and PSI delivered to the motor by the hydraulic system, you can quickly select the right motor to deliver the torque and RPM required.

CALCULATING HORSEPOWER

$$HP = \frac{\text{Torque} \times \text{RPM}}{63,025}$$

TORQUE (Inch-pounds)

| G P M | RPM and TORQUE | A125 MOTOR | | | | | | | | | | | | | | |
|-------------|----------------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | PSI | | | | | | | | | | | | | | |
| | | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
| 1 | RPM TORQUE | 71 32 | 70 79 | 67 127 | 63 173 | 58 220 | 52 265 | 45 311 | 38 355 | 29 399 | 20 443 | 11 486 | | | | |
| 2 | RPM TORQUE | 130 29 | 127 77 | 124 124 | 119 171 | 114 218 | 108 264 | 102 309 | 94 355 | 86 399 | 76 443 | 66 487 | 56 530 | 44 572 | 32 614 | 19 656 |
| 3 | RPM TORQUE | 188 23 | 186 71 | 182 119 | 178 166 | 172 213 | 166 259 | 159 305 | 152 351 | 143 396 | 134 440 | 123 485 | 112 528 | 101 571 | 88 614 | 75 656 |
| 4 | RPM TORQUE | 248 14 | 246 62 | 242 110 | 237 157 | 232 204 | 226 251 | 219 297 | 211 343 | 202 389 | 192 434 | 182 479 | 170 523 | 158 567 | 145 610 | 132 653 |
| 5 | RPM TORQUE | | 307 49 | 303 97 | 299 145 | 293 192 | 287 239 | 279 286 | 271 333 | 262 379 | 252 425 | 242 470 | 230 515 | 218 560 | 204 604 | 190 647 |
| 6 | RPM TORQUE | | 370 32 | 366 80 | 362 128 | 356 176 | 349 224 | 342 271 | 333 318 | 324 365 | 314 411 | 303 457 | 291 503 | 278 548 | 265 593 | 250 638 |
| 7 | RPM TORQUE | | 432 10 | 428 59 | 426 107 | 421 155 | 414 203 | 406 251 | 397 299 | 388 346 | 377 394 | 366 440 | 354 487 | 341 533 | 327 579 | 312 624 |
| 8 | RPM TORQUE | | | 495 33 | 492 81 | 487 130 | 480 179 | 472 227 | 463 276 | 453 324 | 443 372 | 431 419 | 418 467 | 405 514 | 390 560 | 375 607 |

On this table you can find motor torque and RPM for known GPM and PSI – read across from GPM and down from PSI

Example: In a hydraulic system delivering 6 GPM at 800 PSI – an A125 motor will operate at 333 RPM and deliver 318 inch-lbs. of torque.

CALCULATING HORSEPOWER

$$HP = \frac{318 \times 333}{63,025} = 1.68$$

| GEROTOR MOTOR | | | A25 | A37 | A50 | A62 | A100 | A125 |
|--|--------|--|-------|-------|-------|-------|-------|-------|
| DISPLACEMENT (cubic inches per revolution) | | | 0.82 | 1.16 | 1.53 | 1.88 | 3.11 | 3.73 |
| GEROTOR SIZE (Inches) | | | 0.250 | 0.375 | 0.500 | 0.625 | 1.000 | 1.250 |
| SPEED (Maximum RPM) | | | 2255 | 1592 | 1206 | 982 | 595 | 495 |
| TORQUE (Maximum Inch-pounds) | | | 149 | 222 | 284 | 363 | 570 | 656 |
| Sample Motor Weights (pounds) | F | Standard Flange - Short Shaft | 3.55 | 3.55 | 3.55 | 3.60 | 3.80 | 3.90 |
| | FMO | Standard Flange - Long Shaft | 3.65 | 3.65 | 3.65 | 3.70 | 3.90 | 4.00 |
| | FM | Foot Mount - Long Shaft | 6.15 | 6.15 | 6.15 | 6.20 | 6.40 | 6.50 |
| | F-T | Turned Down Flange - Short Shaft | 3.10 | 3.10 | 3.10 | 3.15 | 3.35 | 3.45 |
| | FMO-T | Turned Down Flange - Long Shaft | 3.20 | 3.20 | 3.20 | 3.25 | 3.45 | 3.55 |
| | FA | Aluminum Body & Flange - Short Shaft | 2.45 | 2.45 | 2.45 | 2.50 | 2.70 | 2.80 |
| | FMOA | Aluminum Body & Flange - Long Shaft | 2.55 | 2.55 | 2.55 | 2.60 | 2.80 | 2.90 |
| | F-TA | Aluminum Body & Turned Down Flange - Short Shaft | 2.30 | 2.30 | 2.30 | 2.35 | 2.55 | 2.65 |
| | FMO-TA | Aluminum Body & Turned Down Flange - Long Shaft | 2.40 | 2.40 | 2.40 | 2.45 | 2.65 | 2.75 |

The rotor gear of these low-weight motors rolls through four complete "CYCLES" for each revolution of the output shaft. Thus, four times greater torque at one-fourth of the conventional speed is obtained without the use of gear reducers. In other words, with Lamina Motors the same amount of torque is assured as you would get from a much larger ordinary motor that is considerably more expensive.

Of considerable importance to application design engineers is the smooth rotation and long life of these unique motors. Because the motors have five fluid chambers, the inherent four-to-one ratio provides twenty fluid power cycles for each revolution of the output shaft. This feature assures a distinct addition, Lamina motors have only three moving parts (motor shaft, spline drive, gerotor star) – this greatly extends the service life.

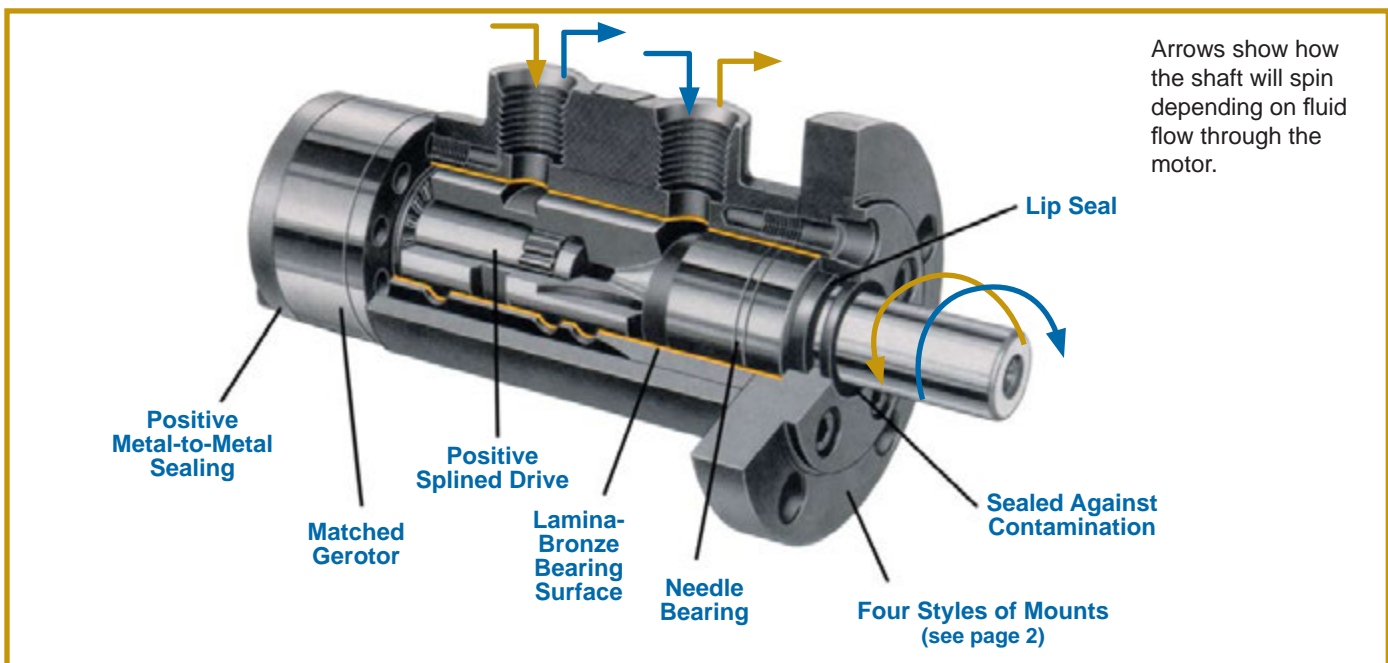
Within the broad range of each gerotor, any torque or speed can be readily secured. Also the various sizes of gerotors available

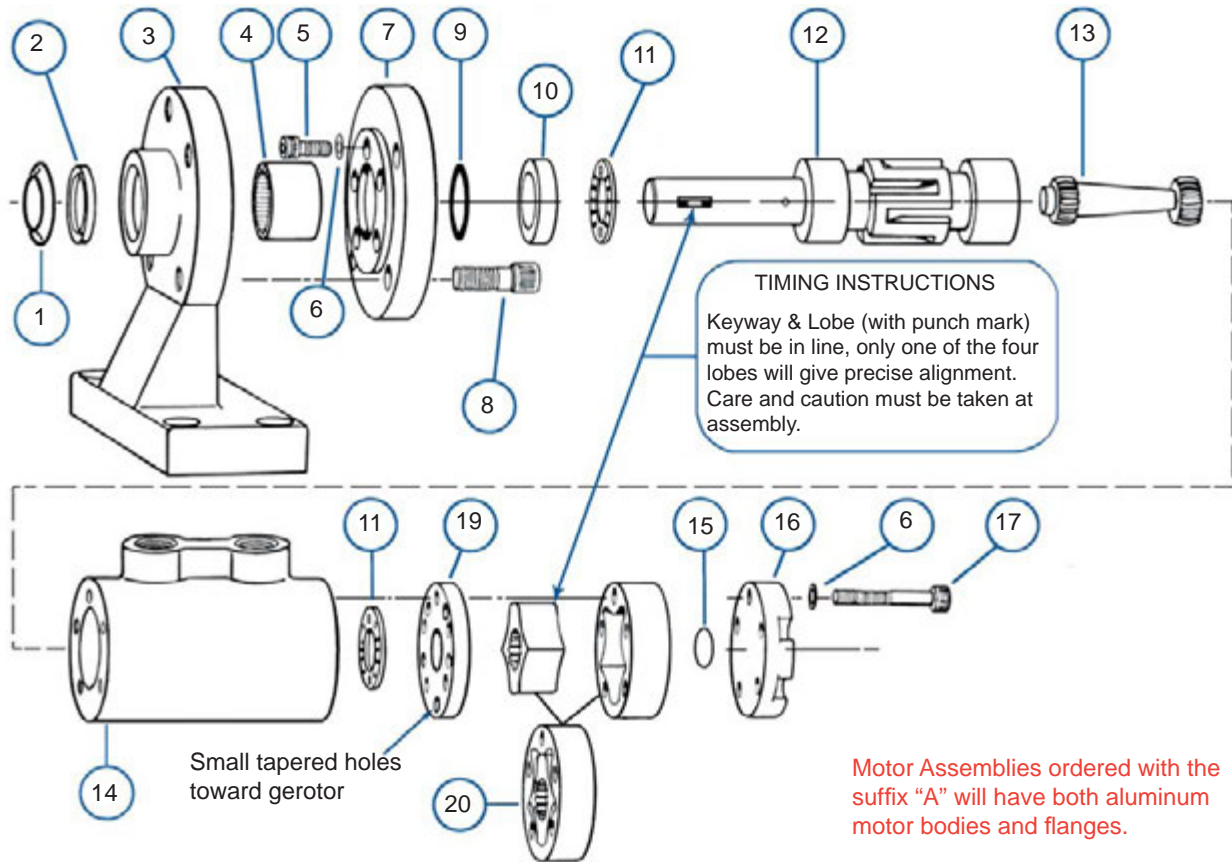
| ALL MOTORS | |
|--------------------|------------------|
| Minimum Flow Rate | 1 GPM |
| Maximum Flow Rate | 8 GPM |
| Minimum Pressure | 100 psi |
| Maximum Pressure | 1500 psi |
| Maximum Side Load | 300 pounds force |
| Maximum Push Force | 500 pounds force |
| Maximum Pull Force | 300 pounds force |

provide a torque range from 0 to 656 inch-lbs. and R.P.M. ranging from 0 to 2255. High selectivity to exactly meet requirements is inherent in these motors.

Lamina recommends parallel circuits versus series circuits, because the back pressure generated cannot exceed 300 psi.

Recommended Oil: Mobil® DTE 13 (ISO-32 Hydraulic Oil).





Motor Assemblies ordered with the suffix "A" will have both aluminum motor bodies and flanges.

HYDRAULIC MOTOR COMPONENT PARTS

| Item No. | PART NUMBER | PART DESCRIPTION | NOTE | Item No. | PART NUMBER | PART DESCRIPTION | NOTE |
|----------|--------------|-----------------------|----------------------------------|--------------------|--|----------------------|----------------------------------|
| 1 | BSS-1 | Blood Slinger Shield | Optional Seal - order separately | 12 | 15CFMK | Motor Shaft with Key | FMO only-3/16 x 1-1/4 Key |
| 2 | 48CF | Dirt Seal | All motors | 13 | 13CA-1/4 | Spline Drive | A25 motors only |
| 3 | 60CFM | Foot Mount | FM style motors only | 13 | 13C | Spline Drive | A37, A50, A62, A100, A125 only |
| 4 | 52CFM | Shaft Bearing | FM style motors only | 14 | 11CF | Motor Body | All motors except Aluminum |
| 5 | SHCS010050F | Screw (10-32x1/2) | All motors - 5 required | 14 | 11CF-ALUM | Motor Body | Aluminum |
| 6 | 50C | Copper Washer Seal | All motors - 10 required | 15 | 27CA-.125 | Gerotor Spacer | A62 motors only |
| 7 | 10CF | Round Flange | Standard Flange | 15 | 27CD-.500 | Gerotor Spacer | A100 motors only |
| 7 | 10CF-2-BOLT | Oval Flange | Ordering suffix "-2B" | 15 | 27CB-.745 | Gerotor Spacer | A125 motors only |
| 7 | 10CF-4-BOLT | Square Flange | Ordering suffix "-4B" | 16 | 14CF | Gerotor cover | All motors |
| 7 | 10CF-T | Turned Down Flange | Ordering suffix "-T" | 17 | 39CF | Screw (10-32x1-1/4) | A25, A37, A50 & A62 - 5 req. |
| 7 | 10CF-ALUM | Round Flange | Aluminum | 17 | 39B-A | Screw (10-32x1-3/4) | A100 motors only - 5 required |
| 7 | 10CF-2B-ALUM | Oval Flange | Aluminum | 17 | 39CF-A | Screw (10-32x2) | A125 motors only - 5 required |
| 7 | 10CF-4B-ALUM | Square Flange | Aluminum | 19 | 12C-.406 | Separator Plate | A25 motors only |
| 7 | 10CF-T-ALUM | Turned Down Flange | Aluminum | 19 | 12C-.281 | Separator Plate | A37 motors only |
| 8 | SHCS031075 | Screw (5/16-18x3/4) | FM style motors only | 19 | 12C-.156 | Separator Plate | A50, A62, A100, A125 motors only |
| 9 | 31C | Shaft Seal - Teflon | Standard Seal | 20 | 18C-1/4 | Gerotor Assembly | A25 motors only |
| 9 | 31C-VITON | Shaft Seal - Viton | Optional Seal | 20 | 18C-3/8 | Gerotor Assembly | A37 motors only |
| 10 | 64CF | Thrust Race | All motors | 20 | 18C-1/2 | Gerotor Assembly | A50 motors only |
| 11 | 17CF | Thrust Bearing | All motors - 2 required | 20 | 18C-5/8 | Gerotor Assembly | A62 motors only |
| 12 | 15CF | Motor Shaft - Short | F style motors only | 20 | 18C-1 | Gerotor Assembly | A100 motors only |
| 12 | 15CFM | Motor Shaft - Long | FM & FMO style motors only | 20 | 18C-1-1/4 | Gerotor Assembly | A125 motors only |
| 12 | 15CF-2 | Motor Shaft - 2 Flats | F style motors only | SEAL KITS | | | |
| 12 | 15CFM-2 | Motor Shaft - 2 Flats | FMO style motors only | ASK-1 | Seal Kit includes (1) 31C, (1) 48CF, (10) 50C & (2) 17CF | | |
| 12 | 15CFMH-2 | Motor Shaft - 2 Flats | FM style motors only | | | | |
| 12 | 15CFT | Motor Shaft - Tapped | F style motors only | VITON-ASK-1 | Seal Kit includes (1) 31C-VITON, (1) 48CF, (10) 50C & (2) 17CF | | |
| 12 | 15CFMT | Motor Shaft - Tapped | FM & FMO style motors only | | | | |

Committed to Quality & Customer Satisfaction

Anchor Lamina is committed to be the “customer focused” world-class supplier of choice to the metal-working and plastics forming industry.

We will help our customers to compete globally by providing innovative and value added products and services.

Lamina warrants our hydraulic motors to be free from defects in material and workmanship. The warranty period lasts until 6 months from the date of shipment. Any modifications made to the motor will void the warranty. For full warranty details, please go to <http://www.anchorlamina.com/termsofservice.html>.

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