

Disc Valve Motors

SMT Series

Features

Compact in design with disc valving and Geroler

High pressure capacity shaft seal

Design and manufacture of the spline and drives give the motor durability

Wide variety of mounting flanges, shafts, ports and speed provides design flexibility

Direction of shaft rotation and speed can be controlled easily and smoothly

Best combination of high efficiency and economy in medium duty applications

Specification Data

| | | | | | | | | | |
|--------------|------------------|-----|-----|------|------|------|------|------|------|
| Displacement | cc/r | 195 | 245 | 310 | 390 | 490 | 625 | 800 | 985 |
| Flow | continuous | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| | LPM intermittent | 170 | 210 | 225 | 225 | 225 | 225 | 225 | 225 |
| Speed | continuous | 775 | 615 | 698 | 387 | 241 | 307 | 184 | 153 |
| | RPM intermittent | 866 | 834 | 485 | 570 | 355 | 454 | 278 | 230 |
| Pressure | continuous | 170 | 170 | 170 | 170 | 120 | 170 | 120 | 120 |
| | Bar intermittent | 275 | 275 | 275 | 275 | 140 | 240 | 140 | 140 |
| Torque | continuous | 475 | 615 | 775 | 965 | 1125 | 1215 | 1380 | 1570 |
| | Nm intermittent | 770 | 980 | 1225 | 1455 | 1330 | 1685 | 1650 | 1875 |

Max. pressure is the allowed pressure at the inlet port. Rated pressure is the working pressure difference between inlet and outlet port.

A simultaneous maximum RPM and maximum pressure NOT recommended

Maximum pressure or maximum RPM operation: 10% of every minute

Recommended fluids: Anti-wear type of hydraulic oil. Viscosity recommended 37–73 cSt. Recommended filtration ISO18/13. Maximum operating temperature recommended 80°C

Special high pressure capacity shaft seal ensures back pressure up to 10 Mpa. Recommended preferable back pressure 5 Mpa. Case drain line is recommended when back pressure higher than 5 Mpa. When case drain line is used, make sure the motor is always filled with oil. The motor life is benefited from a case drain line.

It is highly recommended that the motor runs at 30% of rated pressure for at least one hour before application of full load. Be sure the motor is filled with fluid prior to any load applications.

Disc Valve Motors

Performance Data SMT Series

Continuous

Intermittent

195cc/r

| | | Δ Pressure Bar | | | | | | | |
|-----|--|----------------|-----|-----|-----|-----|-----|-----|-----|
| | | 35 | 70 | 105 | 140 | 170 | 205 | 240 | 275 |
| 1.9 | | 75 | 165 | 260 | | | | | |
| | | 7 | 5 | 2 | | | | | |
| 7.5 | | 75 | 170 | 265 | 350 | 440 | 470 | | |
| | | 37 | 35 | 34 | 30 | 26 | 18 | | |
| 15 | | 80 | 175 | 270 | 365 | 455 | 520 | 590 | 655 |
| | | 76 | 74 | 72 | 66 | 62 | 46 | 32 | 18 |
| 30 | | 85 | 180 | 275 | 370 | 465 | 545 | 625 | 705 |
| | | 153 | 148 | 144 | 131 | 119 | 116 | 99 | 83 |
| 45 | | 85 | 180 | 280 | 375 | 475 | 565 | 655 | 750 |
| | | 230 | 225 | 221 | 212 | 203 | 186 | 167 | 148 |
| 61 | | 80 | 180 | 280 | 375 | 475 | 575 | 665 | 760 |
| | | 307 | 303 | 300 | 291 | 283 | 258 | 236 | 214 |
| 76 | | 80 | 180 | 280 | 380 | 480 | 575 | 670 | 770 |
| | | 384 | 379 | 374 | 365 | 356 | 332 | 306 | 280 |
| 91 | | 80 | 175 | 275 | 375 | 475 | 575 | 670 | 770 |
| | | 462 | 456 | 450 | 440 | 429 | 413 | 388 | 363 |
| 106 | | 75 | 175 | 270 | 375 | 475 | 570 | 670 | 770 |
| | | 539 | 532 | 526 | 514 | 502 | 476 | 448 | 421 |
| 121 | | 70 | 170 | 270 | 370 | 470 | 570 | 670 | 765 |
| | | 617 | 609 | 602 | 589 | 576 | 542 | 511 | 480 |
| 136 | | 70 | 165 | 265 | 365 | 465 | 565 | 665 | 765 |
| | | 692 | 683 | 674 | 659 | 645 | 601 | 564 | 527 |
| 151 | | 70 | 165 | 260 | 365 | 465 | 560 | 660 | |
| | | 770 | 759 | 746 | 733 | 718 | 666 | 624 | |
| 170 | | 65 | 160 | 260 | 360 | 460 | 555 | 655 | |
| | | 866 | 854 | 843 | 825 | 808 | 749 | 702 | |

245cc/r

| | | Δ Pressure Bar | | | | | | | |
|-----|--|----------------|-----|-----|-----|-----|-----|-----|-----|
| | | 35 | 70 | 105 | 140 | 170 | 205 | 240 | 275 |
| 1.9 | | 95 | 215 | | | | | | |
| | | 4 | 1 | | | | | | |
| 7.5 | | 100 | 220 | 340 | 445 | 555 | 570 | 670 | |
| | | 29 | 26 | 24 | 21 | 17 | 11 | 6 | |
| 15 | | 105 | 225 | 345 | 460 | 575 | 640 | 750 | 855 |
| | | 60 | 56 | 54 | 48 | 42 | 39 | 30 | 12 |
| 30 | | 110 | 235 | 355 | 475 | 595 | 700 | 800 | 905 |
| | | 120 | 116 | 113 | 104 | 95 | 81 | 67 | 53 |
| 45 | | 110 | 235 | 360 | 480 | 605 | 720 | 840 | 955 |
| | | 182 | 178 | 174 | 165 | 157 | 141 | 125 | 109 |
| 61 | | 110 | 235 | 360 | 485 | 610 | 730 | 845 | 960 |
| | | 244 | 240 | 236 | 228 | 221 | 202 | 184 | 165 |
| 76 | | 105 | 230 | 355 | 485 | 615 | 735 | 855 | 980 |
| | | 306 | 301 | 297 | 287 | 277 | 257 | 238 | 218 |
| 91 | | 105 | 230 | 355 | 480 | 610 | 735 | 860 | 980 |
| | | 365 | 361 | 358 | 348 | 338 | 316 | 294 | 271 |
| 106 | | 100 | 225 | 350 | 480 | 610 | 730 | 855 | 980 |
| | | 426 | 421 | 416 | 404 | 376 | 358 | 340 | 322 |
| 121 | | 90 | 215 | 345 | 470 | 600 | 725 | 850 | 975 |
| | | 489 | 481 | 475 | 461 | 448 | 423 | 398 | 373 |
| 136 | | 80 | 210 | 335 | 460 | 580 | 710 | 840 | |
| | | 549 | 543 | 537 | 524 | 509 | 482 | 456 | |
| 151 | | 80 | 200 | 330 | 455 | 580 | 700 | 800 | |
| | | 612 | 606 | 599 | 585 | 570 | 540 | 510 | |
| 170 | | 65 | 200 | 325 | 445 | 575 | 685 | 755 | |
| | | 688 | 682 | 674 | 685 | 641 | 608 | 574 | |
| 189 | | | 195 | 315 | 440 | 555 | 670 | | |
| | | | 758 | 749 | 731 | 712 | 676 | | |
| 208 | | | 190 | 310 | 430 | 550 | 665 | | |
| | | | 834 | 824 | 804 | 783 | 744 | | |

460 Torque Nm
808 Speed RPM

Motors run with high efficiency in all areas designated with a number for torque and speed, However for best motor life select a motor to run with a torque and speed in the Continuous Area.

Performance data is typical at 120 SUS.
Actual data may vary slightly from unit to unit in production

Disc Valve Motors

Performance Data SMT Series

Continuous 

Intermittent 

310cc/r

390cc/r

| | Δ Pressure Bar | | | | | | | |
|-----|----------------|------------|------------|------------|------------|------------|-------------|-------------|
| | 35 | 70 | 105 | 140 | 170 | 205 | 240 | 275 |
| 1.9 | 60 6 | 125 4 | 275 1 | | | | | |
| 7.5 | 130 23 | 280 22 | 410 20 | 540 17 | 645 14 | 755 10 | 880 4 | |
| 15 | 135 47 | 290 45 | 430 42 | 570 38 | 685 32 | 800 24 | 935 17 | 1025 10 |
| 30 | 140 95 | 300 91 | 450 87 | 595 81 | 730 73 | 870 64 | 985 55 | 1105 46 |
| 45 | 140 143 | 305 140 | 460 135 | 610 129 | 760 121 | 910 111 | 1045 99 | 1185 88 |
| 61 | 140 192 | 300 188 | 460 184 | 615 178 | 770 167 | 920 156 | 1060 141 | 1205 126 |
| 76 | 135 241 | 295 236 | 455 232 | 615 226 | 770 216 | 925 201 | 1075 184 | 1225 167 |
| 91 | 130 289 | 295 282 | 455 279 | 615 273 | 775 260 | 930 248 | 1080 232 | 1230 215 |
| 106 | 130 336 | 290 333 | 450 328 | 610 320 | 770 308 | 930 295 | 1075 276 | 1225 257 |
| 121 | 125 384 | 285 381 | 445 375 | 600 368 | 765 354 | 920 341 | 1065 320 | |
| 136 | 120 430 | 275 421 | 435 416 | 590 410 | 750 396 | 915 383 | 1055 360 | |
| 151 | 115 478 | 270 466 | 425 461 | 580 456 | 745 441 | 905 427 | 1040 403 | |
| 189 | 110 597 | 245 582 | 385 576 | 525 570 | 685 551 | 840 534 | | |
| 227 | | 220 698 | 365 691 | 515 684 | 650 661 | 800 641 | | |

| | Δ Pressure Bar | | | | | | | |
|-----|----------------|------------|------------|------------|------------|-------------|-------------|------------|
| | 35 | 70 | 105 | 140 | 170 | 205 | 240 | 275 |
| 3.8 | 175 2 | 365 1 | | | | | | |
| 7.5 | 180 18 | 370 17 | 555 16 | 730 14 | 875 12 | 1025 9 | 1195 4 | |
| 15 | 185 38 | 375 37 | 560 35 | 740 33 | 920 29 | 1080 22 | 1275 14 | 1370 5 |
| 30 | 185 76 | 380 74 | 575 72 | 760 68 | 950 65 | 1135 55 | 1315 45 | 1455 33 |
| 45 | 185 115 | 385 112 | 580 109 | 770 105 | 965 100 | 1150 91 | 1340 81 | 1540 79 |
| 61 | 180 154 | 380 151 | 580 147 | 770 143 | 965 132 | 1155 126 | 1345 116 | |
| 76 | 180 193 | 380 189 | 580 187 | 775 182 | 970 175 | 1160 162 | 1355 152 | |
| 91 | 170 230 | 370 229 | 570 225 | 765 220 | 965 212 | 1155 204 | | |
| 106 | 165 268 | 365 266 | 565 261 | 760 256 | 960 248 | 1150 236 | | |
| 121 | 160 306 | 355 304 | 555 299 | 750 292 | 945 282 | 1145 269 | | |
| 136 | 155 346 | 340 340 | 545 336 | 730 329 | 930 317 | 1130 301 | | |
| 151 | 150 386 | 325 380 | 535 375 | 730 368 | 915 359 | | | |
| 189 | 130 482 | 300 475 | 515 469 | 730 460 | 910 449 | | | |
| 227 | | 280 570 | 500 562 | 720 552 | 890 538 | | | |

650 Torque Nm
661 Speed RPM

Motors run with high efficiency in all areas designated with a number for torque and speed, However for best motor life select a motor to run with a torque and speed in the Continuous Area.

Performance data is typical at 120 SUS.
Actual data may vary slightly from unit to unit in production

Disc Valve Motors

Performance Data SMT Series

Continuous Intermittent

490cc/r

625cc/r

| | Δ Pressure Bar | | | | | | |
|-----|----------------|------------|------------|------------|-------------|-------------|------------|
| | 35 | 70 | 105 | 140 | 170 | 205 | 240 |
| 3.8 | 235 7 | 480 5 | 695 3 | | | | |
| 7.5 | 240 14 | 480 13 | 710 12 | 945 11 | 1175 8 | 1370 3 | |
| 15 | 235 30 | 485 29 | 725 28 | 960 27 | 1195 25 | 1410 21 | 1645 17 |
| 30 | 235 60 | 485 59 | 735 57 | 975 54 | 1215 51 | 1445 45 | 1685 38 |
| 45 | 235 91 | 485 89 | 735 87 | 975 84 | 1220 79 | 1455 71 | |
| 61 | 235 122 | 480 121 | 730 118 | 975 114 | 1220 109 | 1460 100 | |
| 76 | 225 152 | 470 150 | 725 147 | 975 144 | 1220 139 | | |
| 91 | 220 184 | 470 181 | 720 180 | 970 176 | 1215 171 | | |
| 106 | 210 214 | 460 211 | 710 208 | 960 204 | 1210 198 | | |
| 121 | 195 244 | 450 241 | 700 237 | 950 232 | 1205 226 | | |
| 136 | 175 275 | 435 272 | 685 265 | 940 260 | 1175 255 | | |
| 151 | 160 306 | 425 303 | 675 295 | 920 290 | 1150 284 | | |
| 189 | 130 382 | 365 379 | 590 369 | 860 362 | | | |
| 227 | | 325 454 | 550 442 | 805 435 | | | |

| | Δ Pressure Bar | | | | | | |
|-----|----------------|------------|------------|------------|------------|-------------|-------------|
| | 35 | 50 | 70 | 85 | 105 | 120 | 140 |
| 3.8 | 250 5 | 380 4 | 510 4 | 640 3 | 755 2 | | |
| 7.5 | 260 12 | 395 13 | 535 13 | 670 10 | 795 10 | 925 8 | 1060 6 |
| 15 | 275 24 | 425 24 | 570 24 | 710 22 | 850 21 | 955 18 | 1065 16 |
| 30 | 295 45 | 450 44 | 605 44 | 755 43 | 925 42 | 1095 39 | 1270 37 |
| 45 | 295 72 | 450 71 | 610 71 | 765 70 | 920 68 | 1125 66 | 1330 64 |
| 61 | 285 94 | 445 93 | 605 92 | 760 91 | 915 89 | 1120 87 | 1325 85 |
| 76 | 280 119 | 440 118 | 595 117 | 755 116 | 915 115 | 1120 112 | 1325 110 |
| 91 | 265 143 | 430 142 | 585 140 | 745 139 | 905 138 | 1110 135 | 1320 132 |
| 106 | 255 168 | 415 166 | 575 165 | 735 164 | 895 162 | 1105 159 | 1315 156 |
| 121 | 240 192 | 400 190 | 560 188 | 720 187 | 880 185 | 1090 182 | 1300 179 |
| 136 | 220 216 | 380 214 | 540 213 | 700 212 | 855 210 | 1050 207 | |
| 151 | 200 240 | 360 239 | 520 238 | 680 237 | 835 236 | 1015 233 | |
| 189 | | 310 298 | 470 296 | 630 294 | 790 290 | | |
| 227 | | 255 355 | 430 353 | 590 350 | 745 345 | | |

805 Torque Nm
435 Speed RPM

Motors run with high efficiency in all areas designated with a number for torque and speed, However for best motor life select a motor to run with a torque and speed in the Continuous Area.

Performance data is typical at 120 SUS.
Actual data may vary slightly from unit to unit in production

Disc Valve Motors

SMT Series Performance

Continuous

Intermittent

800cc/r

| | | Pressure Bar | | | | | | |
|----------|-----|--------------|------------|------------|------------|-------------|------------|------------|
| | | 35 | 50 | 70 | 85 | 105 | 120 | 140 |
| Flow LPM | 3.8 | 420 4 | 590 4 | 776 3 | 960 2 | | | |
| | 7.5 | 420 4 | 594 8 | 790 8 | 972 7 | 1176 6 | 1344 5 | 1568 4 |
| | 15 | 435 18 | 608 17 | 840 17 | 1020 16 | 1204 15 | 1308 14 | 1650 13 |
| | 30 | 420 36 | 396 35 | 830 35 | 1005 34 | 1204 33 | 1415 31 | 1610 29 |
| | 45 | 380 55 | 565 55 | 795 54 | 972 54 | 1190 53 | 1362 51 | |
| | 61 | 340 75 | 520 74 | 760 72 | 940 71 | 1172 70 | | |
| | 76 | 325 93 | 500 92 | 730 90 | 900 89 | 1140 87 | | |
| | 91 | 315 111 | 470 110 | 700 109 | 860 108 | 1080 105 | | |
| | 106 | 310 129 | 450 128 | 650 127 | 800 125 | 1020 123 | | |
| | 121 | 280 148 | 420 146 | 610 145 | 750 143 | | | |
| | 136 | 270 166 | 400 165 | 550 165 | 700 164 | | | |
| | 151 | 250 184 | 350 183 | 500 182 | 635 180 | | | |
| | 189 | | 300 230 | 440 228 | 580 225 | | | |
| | 227 | | | 380 276 | 520 273 | | | |

985cc/r

| | | Pressure ΔBar | | | | | | | |
|----------|-----|---------------|------------|------------|------------|-------------|-------------|------------|------------|
| | | 15 | 35 | 50 | 70 | 85 | 105 | 120 | 140 |
| Flow LPM | 3.8 | 215 3 | 465 3 | 645 2 | 865 2 | 1080 1 | | | |
| | 7.5 | 215 8 | 470 8 | 710 7 | 940 7 | 1175 6 | 1410 5 | 1565 4 | 1685 3 |
| | 15 | 225 15 | 485 15 | 775 15 | 965 14 | 1205 14 | 1445 13 | 1570 13 | 1790 13 |
| | 30 | 230 30 | 495 30 | 750 30 | 995 29 | 1235 28 | 1480 27 | 1640 26 | 1875 25 |
| | 45 | 230 45 | 495 45 | 750 45 | 1000 44 | 1250 43 | 1495 42 | 1700 41 | |
| | 61 | 225 61 | 490 61 | 740 61 | 995 60 | 1245 59 | 1500 58 | | |
| | 76 | 215 77 | 475 77 | 730 76 | 985 76 | 1235 75 | 1485 74 | | |
| | 91 | 205 92 | 460 92 | 705 92 | 960 91 | 1220 90 | 1470 89 | | |
| | 106 | 185 107 | 445 107 | 700 107 | 950 106 | 1200 105 | 1450 103 | | |
| | 121 | 165 123 | 425 123 | 675 122 | 925 121 | 1160 120 | | | |
| | 136 | 130 138 | 395 138 | 645 138 | 895 137 | 1125 135 | | | |
| | 151 | 95 153 | 365 153 | 610 152 | 865 151 | 1085 150 | | | |
| | 189 | | 325 191 | 585 190 | 830 189 | 1050 188 | | | |
| | 227 | | | 525 230 | 810 229 | 1025 226 | | | |

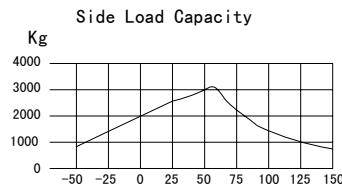
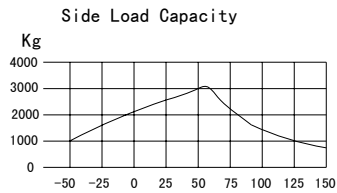
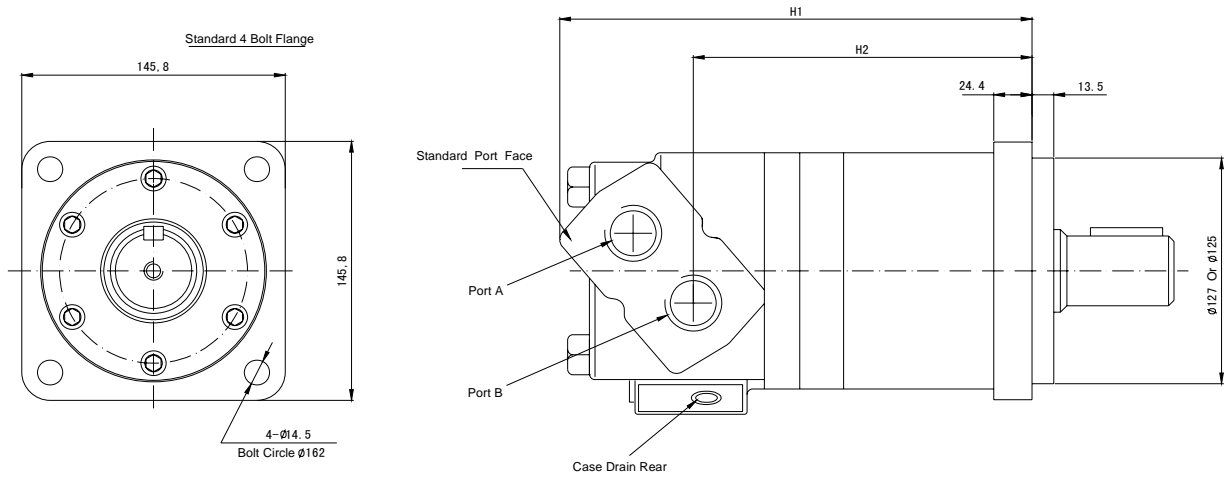
Motors run with high efficiency in all areas designated with a number for torque and speed, However for best motor life select a motor to run with a torque and speed in the Continuous Area.

Performance data is typical at 120 SUS.
Actual data may vary slightly from unit to unit in production

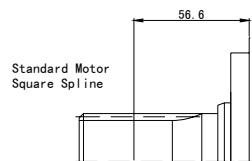
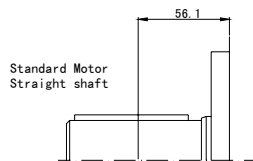
Disc Valve Motors

Dimensions

SMT Series Standard

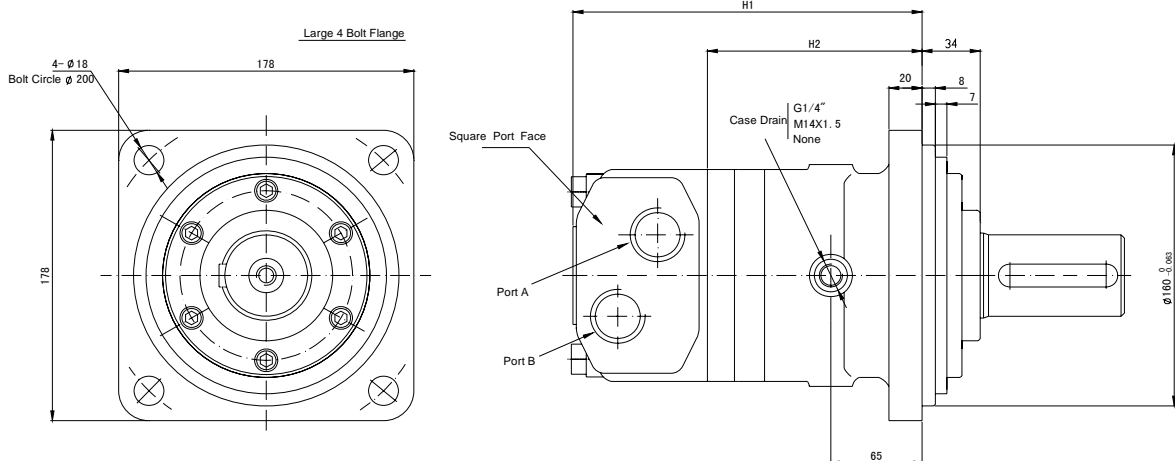


| Displacement | H2 mm | H1 mm |
|--------------|-------|-------|
| 195 | 150 | 270 |
| 245 | 156 | 276 |
| 310 | 163 | 283 |
| 390 | 172 | 292 |
| 490 | 183 | 303 |
| 625 | 198 | 318 |
| 800 | 214 | 333 |
| 985 | 237 | 358 |



Dimensions

SMT Series Large 4 Bolt Flange

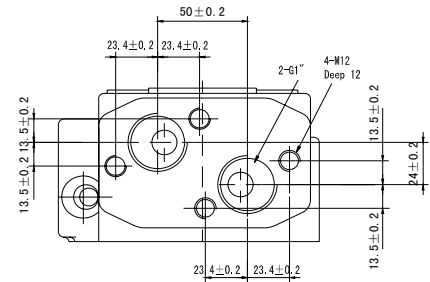
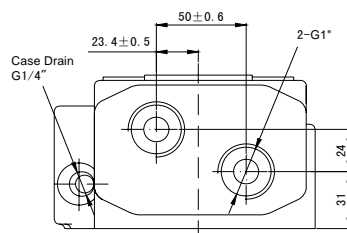
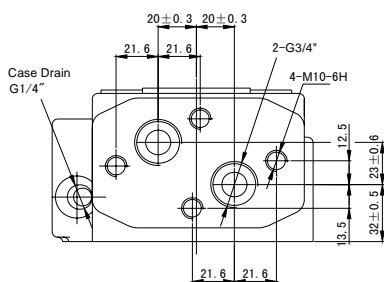
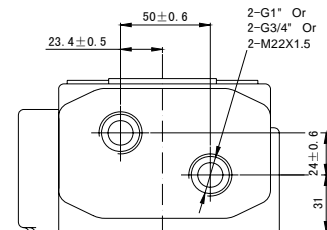
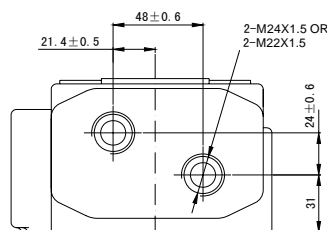
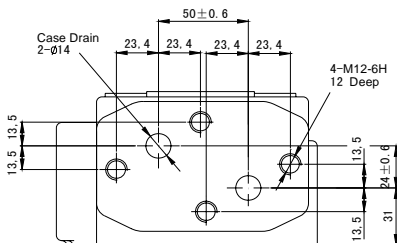
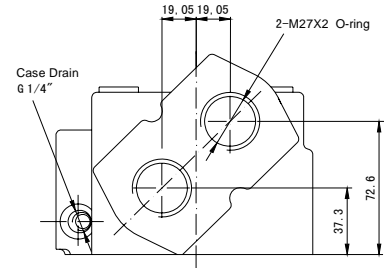
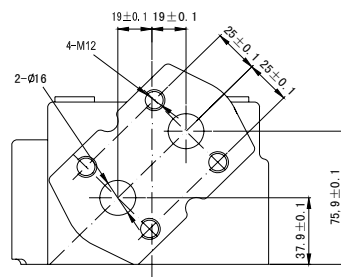
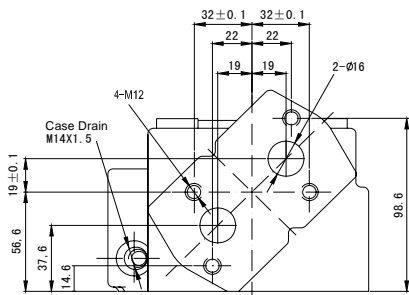
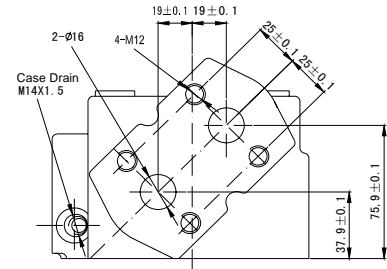
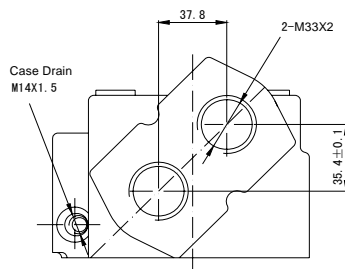
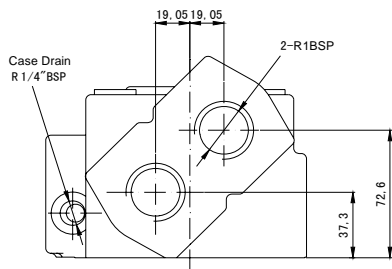


| Displacement | H2 mm | H1 mm |
|--------------|-------|-------|
| 195 | 135.1 | 229.7 |
| 245 | 140.7 | 235.3 |
| 310 | 148.1 | 245.5 |
| 390 | 156.7 | 251.3 |
| 490 | 167.9 | 262.5 |
| 625 | 182.5 | 277 |
| 800 | 198.5 | 292.9 |
| 985 | 222.3 | 317 |

Standard Rotation : CW when Port A pressurized

Disc Valve Motors

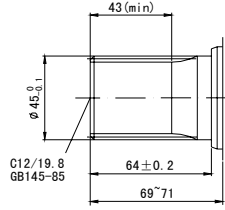
SMT Series Port



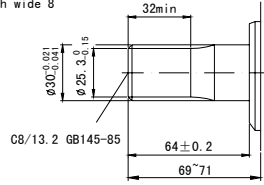
Disc Valve Motors

SMT Series Shaft

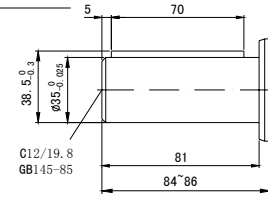
M=2.5 Involute Spline, 17 teeth



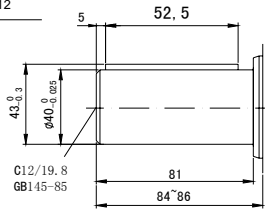
Square Spline
6 teeth
major $\phi 30$
minor $\phi 25.3$
teeth wide 8



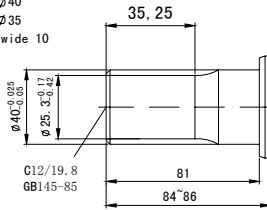
$\phi 35$ Straight shaft
Flat key 12



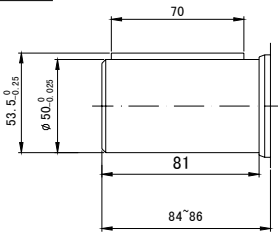
$\phi 40$ Straight shaft
Flat key 12



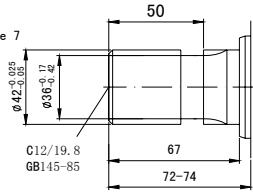
Square Spline
6 teeth
major $\phi 40$
minor $\phi 35$
teeth wide 10



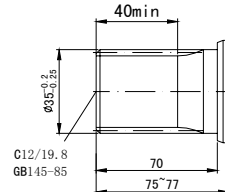
$\phi 50$ Straight shaft
Flat key 14



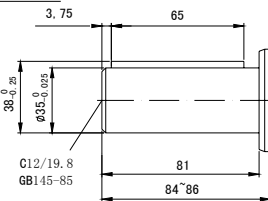
Square Spline
8 teeth
major $\phi 42$
minor $\phi 36$
teeth wide 7



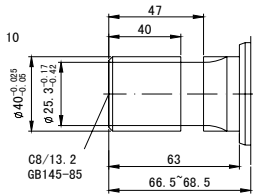
M=2 Involute Spline, 16 teeth



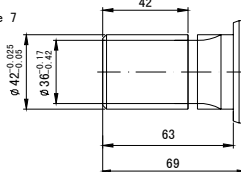
$\phi 35$ Straight shaft
Flat key 10



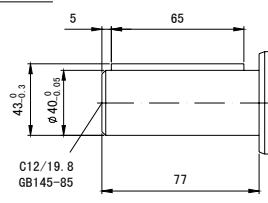
Square Spline
6 teeth
major $\phi 40$
minor $\phi 35$
teeth wide 10



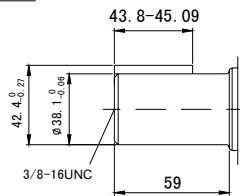
Square Spline
8 teeth
major $\phi 42$
minor $\phi 36$
teeth wide 7



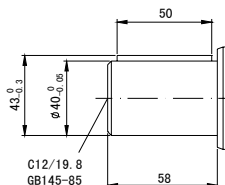
$\phi 40$ Straight shaft
Flat key 12



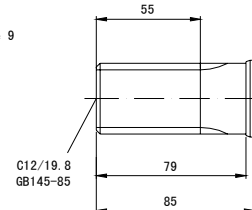
$\phi 1.5$ Straight shaft
Flat key 9.5



$\phi 40$ Straight shaft
Flat key 12

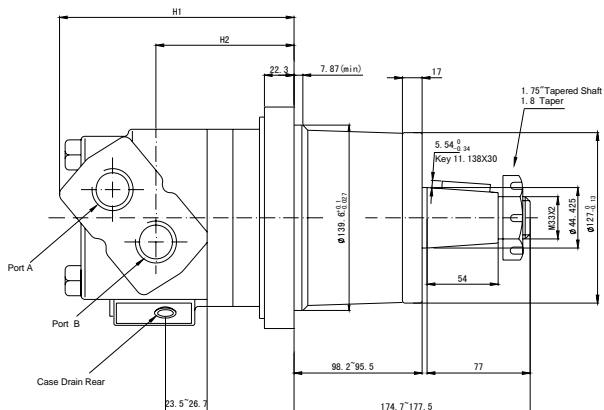
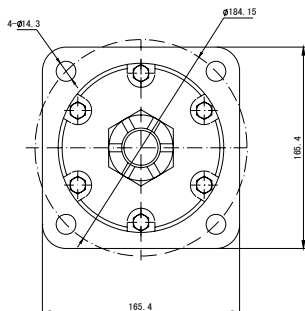


Square Spline
6 teeth
major $\phi 38$
minor $\phi 31$
teeth wide 9

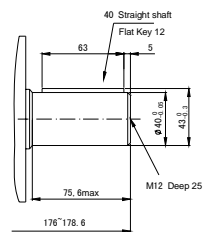


Disc Valve Motors

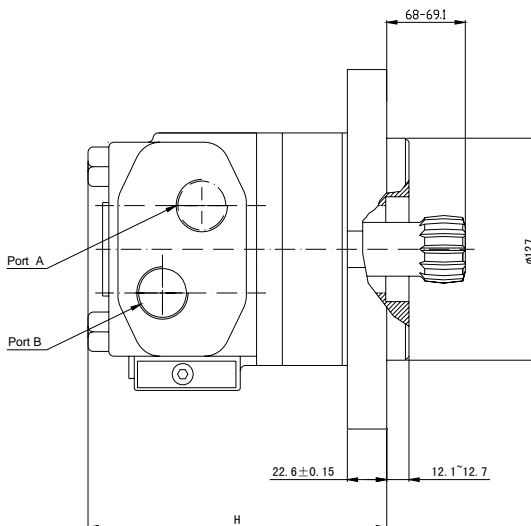
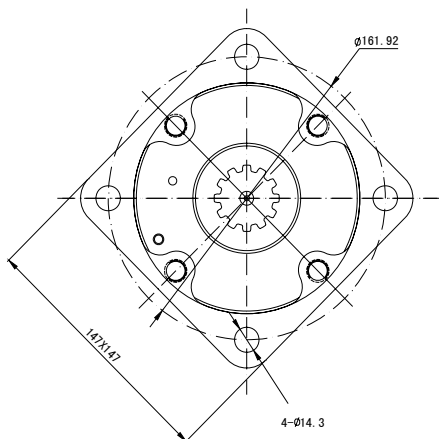
SMT Series Wheel Motor



| Displacement cc/r | H2 | H1 |
|-------------------|-----|-----|
| 195 | 103 | 185 |
| 245 | 108 | 191 |
| 310 | 116 | 198 |
| 390 | 124 | 207 |
| 490 | 136 | 218 |
| 625 | 150 | 233 |
| 800 | 128 | 249 |
| 985 | 190 | 273 |



Standard Rotation : CW when Port A pressurized



| | |
|-----------------|--------|
| Diametral Pitch | 8.5/17 |
| Pressure Angle | 30 |
| Number of Teeth | 12 |
| Major Dia. | 38.4 |
| Minor Dia. | 31.5 |
| Space width | 5.7 |

| Displacement cc/r | 195 | 245 | 310 | 390 | 490 | 625 | 800 | 985 |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| H mm | 178 | 183 | 191 | 200 | 211 | 226 | 251 | 265 |

Disc Valve Motors

Customer Order Information

SMT Series Standard

| Port | Output Shaft | Flange & Pilot | Displacement cc/r | | | | | |
|---|--|---|-------------------|------|------|------|------|------|
| | | | 195 | 245 | 310 | 390 | 490 | 625 |
| Port 1-5/16-12UNF Oring, Rear Case Drain 7/1620 UNF Oring, Standard Port Face | Straight Φ 1.5" Flat Key 9.56 | Standard 4 Bolt Flange, Pilot Φ 127 | 193m1064 | 1065 | 1066 | 1067 | 1068 | 1107 |
| Port G1" BSP, Rear Case Drain G1/4" BSP, Standard Port Face | Straight Φ 40 Flat Key 12 | Standard 4 Bolt Flange, Pilot Φ 127 | 193m1094 | 1095 | 1096 | 1097 | 1098 | |
| | Straight Φ 1.5" Flat Key 9.52 | Standard 4 Bolt Flange, Pilot Φ 127 | 191m0131 | 0132 | 0133 | 0134 | 0135 | 0136 |
| | Square Spline 6D40X35X10 L=119 | Large 4 Bolt Flange, Pilot Φ 160 | 192m1041 | 1042 | 1043 | 1044 | 1045 | 1046 |
| | Square Spline 8D42X36X7 L=105 | Large 4 Bolt Flange, Pilot Φ 160 | 192m1091 | 1092 | 1093 | 1094 | 1095 | 1096 |
| Port G3/4" BSP, Rear Case Drain G1/4" BSP, Standard Port Face | Straight Φ 40 Flat Key 12 | Standard 4 Bolt Flange, Pilot Φ 125 | 192m0031 | 0032 | 0033 | 0034 | 0035 | 0036 |
| Port G3/4" BSP, Rear Case Drain G1/4" BSP, Standard Manifold Port Face | Straight Φ 40 Flat Key 12 | Standard 4 Bolt Flange, Pilot Φ 125 | 191m0061 | 0062 | 0063 | 0064 | 0065 | 0066 |
| Port M33X2, Rear Case Drain M14X1.5 , Standard Port Face | Straight Φ 40 Flat Key 12 | Standard 4 Bolt Flange, Pilot Φ 127 | 191m0011 | 0012 | 0013 | 0014 | 0015 | 0016 |
| | Square Spline 8D42X36X7 L=75.6~78 | Standard 4 Bolt Flange, Pilot Φ 127 | 191m1021 | 1022 | 1023 | 1024 | 1025 | 1026 |
| | Square Spline 8D40X35X10 L=75.6~78 | Standard 4 Bolt Flange, Pilot Φ 127 | 191m1031 | 1032 | 1033 | 1034 | 1035 | 1036 |
| | Straight Φ 1.5" Flat Key 9.52 | Standard 4 Bolt Flange, Pilot Φ 127 | 191m0071 | 0072 | 0073 | 0074 | 0075 | 0076 |
| | Square Spline 8D42X36X7 L=75.6~78 | Standard 4 Bolt Flange, Pilot Φ 127 | 191m1101 | 1102 | 1103 | 1104 | 1105 | 1106 |
| | Straight Φ 40 Flat Key 12 | Standard 4 Φ 14 Bolt Flange, Pilot Φ 125 | 191m0151 | 0152 | 0153 | 0154 | 0155 | 0156 |
| Port M24X1.5, Rear Case Drain M14X1.5 , Standard Port Face | Straight Φ 40 Flat Key 12 | Standard 4 Bolt Flange, Pilot Φ 125 | 191m0011 | 0012 | 0013 | 0014 | 0015 | 0016 |
| Port M22X1.5, Rear Case Drain M14X1.5 , Standard Port Face | Square Spline 6D40X35X10 L=119 | Large 4 Bolt Flange, Pilot Φ 160 | 192m1081 | 1082 | 1083 | 1084 | 1085 | 1086 |
| Port Φ 14, Rear Case Drain G1/4" BSP, Standard Manifold Port Face | Straight Φ 40 Flat Key 12 L=119 | Large 4 Bolt Flange, Pilot Φ 160 | 192m0121 | 0122 | 0123 | 0124 | 0125 | 0126 |
| Port Φ 16, No Case Drain, Standard Manifold Port Face | Straight Φ 40 Flat Key 12 | Standard 4 Bolt Flange, Pilot Φ 127 | 191m0091 | 0092 | 0093 | 0094 | 0095 | 0096 |
| | Square Spline 8D42X36X7 L=75.6~78 | Standard 4 Bolt Flange, Pilot Φ 127 | 191m1041 | 1042 | 1043 | 1044 | 1045 | 1046 |

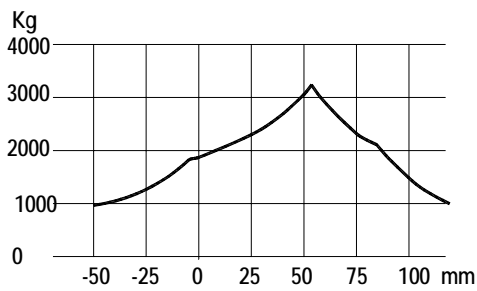
Disc Valve Motors

Customer Order Information

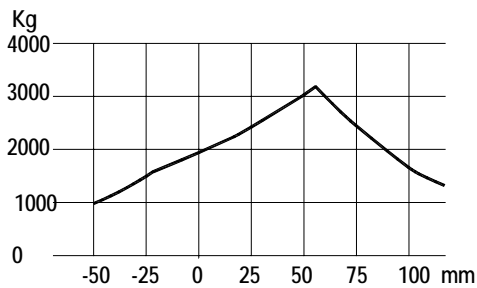
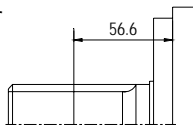
SMT Series Wheel Motor

| Port | Output Shaft | Flange & Pilot | Displacement cc/r | | | | | |
|---|---|--|-------------------|------|------|------|------|------|
| | | | 195 | 245 | 310 | 390 | 490 | 625 |
| Port 15/1612UNF Oring, Rear Case Drain 7/1620 UNF Oring, Standard Port Face | Tapered $\Phi 1.75"$ Flat Key 11.138 | Wheel Motor 4 Bolt Flange, Pilot $\Phi 139.7$ | 194m1070 | 1071 | 1072 | 1073 | 1074 | 1093 |
| Port G1" BSP, Rear Case Drain G1/4" BSP, Standard Port Face | Straight $\Phi 40$ Flat Key 12 | Wheel Motor 4 Bolt Flange, Pilot $\Phi 139.7$ | 194m1082 | 1083 | 1084 | 1085 | 1086 | 1100 |
| Port M33X2, Rear Case Drain M14X1.5, Standard Port Face | Tapered $\Phi 1.75"$ Flat Key 11.138 | Wheel Motor 4 Bolt Flange, Pilot $\Phi 139.7$ | 191m4121 | 4122 | 4123 | 4124 | 4125 | 4126 |

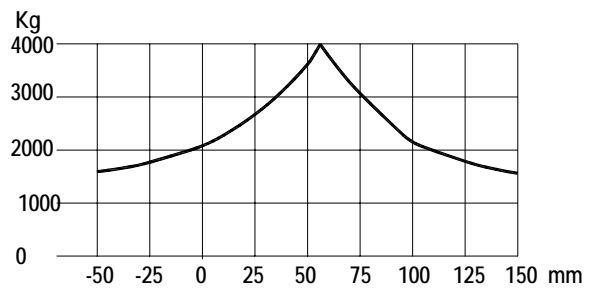
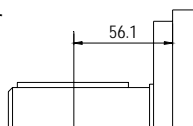
Side Load Capacity



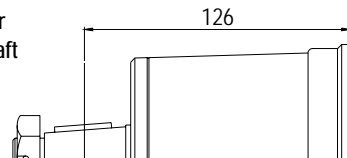
Standard Motor
Straight Shaft



Standard Motor
Straight Shaft



Wheel Motor
Taoered Shaft



Disc Valve Motors

Customer Order Information

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|----|----|
| S | M | T | | | | | | | | |

If the specification is not in the table or you have specific requirements, please contact us.

Pos. 1 : S ——— Power

Pos. 2 : M ——— Motor

Pos. 3 : P ——— T series

Pos. 4, 5: Displacement cc/r

0 1 ——— 195

0 2 ——— 245

0 3 ——— 310

0 4 ——— 390

0 5 ——— 490

0 6 ——— 625

0 7 ——— 800

0 8 ——— 985

Pos. 6 : Flange And Pilot

A ——— Standard 4 bolt flange, pilot ϕ 127

B ——— Standard 4 bolt flange, pilot ϕ 125

C ——— Wheel motor 4 bolt flange , pilot ϕ 139.7

D ——— Large 4 bolt flange pilot ϕ 160 case drain M14X1.5

E ——— Large 4 bolt flange pilot ϕ 160 case drain G1/4

Pos. 7 8 : Shaft

0 1 ——— Straight ϕ 1.5", flat key 9.56

0 2 ——— Straight ϕ 40, flat key 12 L=91.4~93.8

0 3 ——— Straight ϕ 40, flat key 12 L=77.7~80.1

0 4 ——— Square spline 8D-42X36X7 L=77.2~79.6

0 5 ——— Square spline 8D-42X36X7 L=72.2~74.6

0 6 ——— Square spline 6D-40X35X10 L=77.2~79.6

0 7 ——— Straight ϕ 50, flat key 14 L=102.2~104.6

0 8 ——— Straight ϕ 50, flat key 14 L=74.2~76.6

0 9 ——— Straight ϕ 40, flat key 12 L=102.2~104.6

1 0 ——— Straight ϕ 40, flat key 12 L=74.2~76.6

1 1 ——— Cone shaft 1: 8, ϕ 1.75",

1 2 ——— Straight ϕ 35, flat key 12 L=102.2~104.6

1 3 ——— Square spline 6D-40X35X10 L=102.2~104.6

1 4 ——— Square spline 8D-42X36X7 L=88.2~90.6

1 5 ——— Splined key EXT16ZX2.5MX30PX5H

1 6 ——— Splined key EXT17ZX2.5MX30PX5H

1 7 ——— Splined key EXT20ZX2MX30PX5H

1 8 ——— Splined key 12/24DP 17Z 30P

Pos. 9 : port

A : ——— 2-G1"O-ring , case drain G1/4 , O-ring

B : ——— 2-(1-5/16)-12UNF, case drain 7/16-20UNF, O-ring

C : ——— 2-M33X2, case drain M14X1.5

D : ——— 2-M33X2, case drain G1/4, O-ring

E : ——— 2-standard manifold port face

F : ——— 2-G1"

G : ——— 2-G3/4"

H : ——— 2-M22X1.5

I : ——— 2-M24X1.5

J : ——— 2- ϕ 14 port , no case drain

Pos. 10 : paint

0 ——— No paint

1 ——— Blue

2 ——— Black

3 ——— Other

Pos:11

A ——— Standard

B ——— Large bolt

C ——— Wheel