

790060_SIMPLE EFFECT PNEUMATIC ACTUATOR_ALUMINIUM



COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
= ISO 9001 =



SIMPLE EFFECT PNEUMATIC ACTUATOR IN ALUMINIUM NICKEL - 90 °

- ENAW 6063 T6 extruded Aluminium Body, inside surface finish Ra=0,4-0,6 and treatment of Nickel plating.
- ENAB 46100 T6 die-casted Aluminium alloy Pistons, 15 micron Anodizing.
- ENAB 46100 T6 die-casted Aluminium alloy Covers Nickel plated.
- Carbon steel Shaft, 20 micron Nickel plated.
- Screws in Stainless Steel AISI 304 (A2).
- Seals in nitrile nubber NBR.
- LAT-LUB low friction sliding Guides.
- High performances Syntetic Grease.
- Pre-compressed Spring Cartridges.

- Double lower drilling for valve fastening and centering according to ISO 5211-DIN 3337 standards.
- Double square lower female shaft key (starlike) according to ISO 5211-DIN 3337 standards to assembly on valves with square key on line (0°) and diagonal key (45°).
- Solenoid connections according to NAMUR VDIVDE-3845 standards.
- Top drilling for accessories fastening, and upper shaft end according to NAMUR VDIVDE-3845 standards.
- 3D position indicator.
- Aluminium adhesive nameplates with progressive serial number punched.
- Lubrification guaranteed for min. 1.000.000 operations.
- Running test and 100% seal test carried out with electronic equipment and certification of each individual product.
- According to ATEX 2014/34/UE Standard for explosive environment; STANDARD version actuator: II



2GD c Tmax = 95°C.

- According to EN 15714-3 design and manufacture standard requirements.
 - EN 60529\A1 - Protection degree of casings IP 67.
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USE:

AIR SUPPLY: dry or lubricated filtered compressed air.

TEMPERATURE RANGE: -20°+80°C

FEEDING PRESSURE: 8 bar/120 psi continuous - 10 bar/142 psi maximum.

TURNING ROTATION RANGE: +/- 5°.

STANDARD ROTATION: counterclockwise.

| TYPE | MOLLE PER OGNI LATO DEL PISTONE | 3 BAR 0° - 90° | 4 BAR 0° - 90° | 5 BAR 0° - 90 | 6 BAR 0° - 90° | 7 BAR 0° - 90° | 8 BAR 0° - 90° | TORSIONE MOLLA | CODE |
|----------|---------------------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|--------|
| AP 042 | 3 | - | - | 7,1 - 4,1 | 9,3 - 6,3 | 11,5 - 8,5 | 13,7 - | 6,8 - 3,8 | 790060 |
| 4 Molle | 4 | - | - | - | 8,1 - 4,1 | 10,2 - 6,2 | 10,7 | 9,0 - 5,0 | 80740 |
| 4 Spring | | | | | | | 12,4 - 8,4 | | |
| AP 050 | 3 | 5,7 - 3,5 | 8,9 - 6,6 | 12,0 - 9,6 | 15,1 - | 18,1 - | 21,2 - | 5,7 - 3,5 | 790060 |
| 6 Molle | 4 | | 7,7 - 4,7 | 10,8 - 7,7 | 12,7 | 15,7 | 18,8 | 7,7 - 4,7 | 81060 |
| 6 Spring | 5 | | | 9,6 - 5,8 | 13,9 - | 16,9 - | 20,0 - | 9,6 - 5,8 | |
| | 6 | | | 8,4 - 3,9 | 10,8 | 15,7 - | 18,8 - | 11,5 - 7,0 | |
| | | | | | 12,7 - 8,9 | 11,9 | 15,0 | | |
| | | | | | 11,5 - 7,0 | 14,5 - | 17,6 - | | |
| | | | | | | 10,0 | 13,1 | | |
| AP 063 | 3 | 9,4 - 6,3 | 14,9 - 11,7 | 20,4 - | 25,9 - | 31,4 - | 31,4 - | 10,2 - 7,2 | 790060 |
| 6 Molle | 4 | | 12,3 - 8,3 | 17,2 | 22,7 | 28,2 | 28,2 | 13,7 - 9,7 | 81660 |
| 6 Spring | 5 | | | 17,8 - | 23,3 - | 28,8 - | 28,8 - | 17,1 - | |
| | 6 | | | 13,8 | 19,3 | 24,8 | 24,8 | 12,1 | |
| | | | | 15,4 - | 20,9 - | 26,4 - | 26,4 - | 20,5 - | |
| | | | | 10,4 | 15,9 | 21,4 | 21,4 | 14,5 | |
| | | | | 13,0 - 7,0 | 18,5 - | 24,0 - | 24,0 - | | |
| | | | | | 12,5 | 18,0 | 18,0 | | |
| AP 075 | 3 | 22,5 - 12,6 | 34,2 - 24,4 | 46,0 - | 57,7 - | 69,4 - | 81,1 - | 22,5 - | 790060 |
| 6 Molle | 4 | | 30,0 - 16,9 | 36,1 | 47,8 | 59,5 | 71,2 | 12,6 | 82060 |
| 6 Spring | 5 | | | 41,8 - | 53,5 - | 65,2 - | 76,9 - | 30,0 - | |
| | 6 | | | 28,6 | 40,3 | 52,0 | 63,7 | 16,9 | |
| | | | | 37,6 - | 49,3 - | 61,0 - | 72,7 - | 37,6 - | |
| | | | | 21,1 | 32,8 | 44,5 | 56,2 | 21,1 | |
| | | | | 33,4 - | 45,1 - | 56,8 - | 68,5 - | 45,1 - | |
| | | | | 13,6 | 25,3 | 37,0 | 48,7 | 25,3 | |
| AP 085 | 3 | 34,5 - 18,9 | 52,4 - 36,7 | 70,2 - | 88,0 - | 106 - 90,1 | 124 - 108 | 34,5 - | 790060 |
| 6 Molle | 4 | | 46,1 - 25,2 | 54,5 | 72,3 | 99,5 - | 117 - 96 | 18,9 | 82560 |
| 6 Spring | 5 | | | 63,9 - | 81,7 - | 78,6 | 111 - 84,9 | 46,1 - | |
| | 6 | | | 43,0 | 60,8 | 93,2 - | 105 - 73,4 | 25,2 | |
| | | | | 57,6 - | 75,4 - | 67,1 | | 57,6 - | |
| | | | | 31,5 | 49,3 | 86,9 - | | 31,5 | |
| | | | | 51,5 - | 69,1 - | 55,6 | | 69,1 - | |
| | | | | 20,0 | 37,8 | | | 37,8 | |
| AP 100 | 3 | 53,2 - 30,0 | 80,9 - 57,7 | 109 - 85,4 | | | | 53,2 - | 790060 |
| 6 Molle | 4 | | 70,9 - 40,0 | 98,7 - | 136 - 113 | 164 - 141 | 192 - 169 | 30,0 | 83060 |
| 6 Spring | 5 | | | 67,7 | 126 - 95,4 | 154 - 123 | 182 - 151 | 70,9 - | |
| | 6 | | | 88,7 - | 116 - 77,7 | 144 - 105 | 172 - 133 | 40,0 | |
| | | | | 50,0 | 106 - 60,0 | 134 - 87,7 | 162 - 115 | 88,7 - | |
| | | | | 78,7 - | | | | 50,0 | |
| | | | | 32,2 | | | | 106 - 60,0 | |
| AP 115 | 3 | 84,3 - 53,0 | 130 - 98,8 | 176 - 145 | 222 - 190 | 267 - 236 | 313 - 282 | 84,3 - | 790060 |
| 6 Molle | 4 | | 112,3 - | 158 - 116 | 204 - 162 | 250 - 208 | 295 - 254 | 53,0 | 83560 |
| 6 Spring | 5 | | 70,7 | 140 - 88 | 186 - 134 | 232 - 180 | 278 - 226 | 112 - 70,7 | |
| | 6 | | | 123 - 60 | 169 - 106 | 214 - 152 | 260 - 197 | 140 - 88,3 | |
| | | | | | | | | 169 - 106 | |

| AP 125 6 Molle 6 Spring | 3 | 117 - 63,7 | 177 - 124 156 - 85,0 | 237 - 184 216 - 145 195 - 106 173 - 67,4 | 298 - 244 276 - 205 255 - 166 234 - 128 | 358 - 304 336 - 265 315 - 227 294 - 188 | 418 - 364 396 - 326 375 - 287 354 - 248 | 117 - 63,7 156 - 85,0 195 - 106 234 - 128 | 790060 84060 | | | | | |
|-------------------------------|-------------|-------------------------|-------------------------|---|---|--|--|--|-----------------|-----------------|-----------------|-----------------|----------------|----------------|
| | 4 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | | | | | |
| | 6 | | | | | | | | | | | | | |
| AP 145 6 Molle 6 Spring | 3 | 158 - 92,0 | 245 - 179 211 - 123 | 332 - 265 298 - 210 264 - 154 230 - 98 | 418 - 352 384 - 269 350 - 240 316 - 184 | 505 - 439 471 - 383 437 - 327 403 - 271 | 592 - 526 558 - 470 524 - 414 490 - 358 | 168 - 102 224 - 136 280 - 170 336 - 204 | 790060 84560 | | | | | |
| | 4 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | | | | | |
| | 6 | | | | | | | | | | | | | |
| AP 160 6 Molle 6 Spring | 3 | 222,4 - 132,6 | 341 - 251 297 - 177 | 459 - 369 415 - 295 371 - 221 327 - 147 | 577 - 488 533 - 414 489 - 339 445 - 265 | 696 - 606 652 - 532 607 - 458 563 - 384 | 814 - 724 770 - 650 726 - 576 681 - 502 | 222 - 132 297 - 177 371 - 221 445 - 265 | 790060 85060 | | | | | |
| | 4 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | | | | | |
| | 6 | | | | | | | | | | | | | |
| AP 180 6 Molle 6 Spring | 3 | 288 - 191 | 448 - 351 384 - 255 | 607 - 510 544 - 414 480 - 318 416 - 222 | 767 - 670 703 - 574 640 - 478 576 - 382 | 927 - 830 863 - 734 792 - 638 736 - 542 | 1068 - 989 1022 - 893 959 - 797 895 - 701 | 288 - 191 384 - 255 480 - 318 576 - 382 | 790060 85560 | | | | | |
| | 4 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | | | | | |
| | 6 | | | | | | | | | | | | | |
| AP 200 6 Molle 6 Spring | 3 | 424 - 242 | 645 - 464 565 - 323 | 867 - 686 787 - 545 706 - 403 625 - 262 | 1089 - 908 1008 - 766 928 - 625 847 - 484 | 1311 - 1130 1230 - 988 1150 - 847 1069 - 706 | 1533 - 1351 1452 - 1209 1372 - 1068 1291 - 927 | 424 - 242 565 - 323 706 - 403 847 - 484 | 790060 86060 | | | | | |
| | 4 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | | | | | |
| | 6 | | | | | | | | | | | | | |
| AP 240 6 Molle 6 Spring | 3 | 664 - 454 | 1037 - 826 885 - 605 | 1409 - 1199 1258 - 977 1107 - 756 955 - 535 | 1782 - 1571 1630 - 1350 1479 - 1129 1328 - 907 | 2154 - 1944 2003 - 1722 1852 - 1501 1701 - 1280 | 2527 - 2316 2376 - 2095 2224 - 1874 2073 - 1653 | 664 - 454 885 - 605 1107 - 756 1328 - 907 | 790060 86560 | | | | | |
| | 4 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | | | | | |
| | 6 | | | | | | | | | | | | | |
| Position | AP 032 | AP 042 | AP 050 | AP 063 | AP 075 | AP 085 | AP 100 | AP 115 | AP 125 | AP 145 | AP 160 | AP 180 | AP 200 | AP 240 |
| A-90° | 100 | 139 | 139 | 152 | 205 | 230 | 275 | 309 | 360 | 392 | 462 | 482 | 562 | 604 |
| B | 45 | 57 | 68 | 83,5 | 100 | 110 | 125 | 142 | 155 | 175 | 196 | 220 | 240 | 298 |
| C | 49 | 60,5 | 75 | 86 | 94 | 104 | 120 | 134 | 141 | 163 | 176 | 196 | 220 | 300 |
| D x E | - | - | - | - | 105 x 22 | 105 x 22 | 105 x 22 | 139 x 22 | 139 x 22 | 139 x 22 | 139 x 22 | 139 x 22 | 139 x 22 | 139 x 22 |
| F x G | 50 x 25 | 80 x 30 | 80 x 30 | 80 x 30 | 80 x 30 | 80 x 30 | 80 x 30 | 130 x 30 | 130 x 30 | 130 x 30 | 130 x 30 | 130 x 30 | 130 x 30 | 130 x 30 |
| L | 23,5 | 27 | 33,5 | 38 | 42,5 | 49 | 55 | 63,5 | 69,5 | 80 | 88 | 98 | 110 | 150 |
| M | 25,5 | 33,5 | 41,5 | 48 | 51,5 | 55 | 65 | 70,5 | 71,5 | 83 | 88 | 98 | 110 | 150 |
| Port.A-Port.B DIN259 | 1/8" GAS | 1/8" GAS | 1/8" GAS | 1/4" GAS | 1/4" GAS | 1/4" GAS | 1/4" GAS | 1/4" GAS | 1/4" GAS | 1/4" GAS | 1/4" GAS | 1/4" GAS | 1/4" GAS | 1/4" GAS |
| N x O | 8 x 12 | 8 x 12 | 8 x 12 | 8 x 12 | 14 x 18 | 14 x 18 | 14 x 18 | 27 x 36 | 27 x 36 | 27 x 36 | 27 x 36 | 32 x 42 | 32 x 42 | 42 x 60 |
| P | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 30 | 30 | 30 | 30 | 50 | 50 | 50 |
| Q x I | 9 x 10 | 9 x 10 11 x 13 | 9 x 10 11 x 13 | 11 x 13 14 x 16 | 17 x 20 | 17 x 20 | 22 x 25 | 22 x 25 | 22 x 25 | 27 x 30 | 27 x 30 | 27 x 30 | 36 x 39 | 36 x 39 |
| F.ISO 5211 | F03 | F03 / 05 | F03 / 05 F04 | F03 / 05 F04 | F05 / F07 | F05 / F07 | F07 / F10 | F07 / F10 | F07 / F10 | F10 / F12 | F10 / F12 | F10 / F12 | F14 | F14 |

