

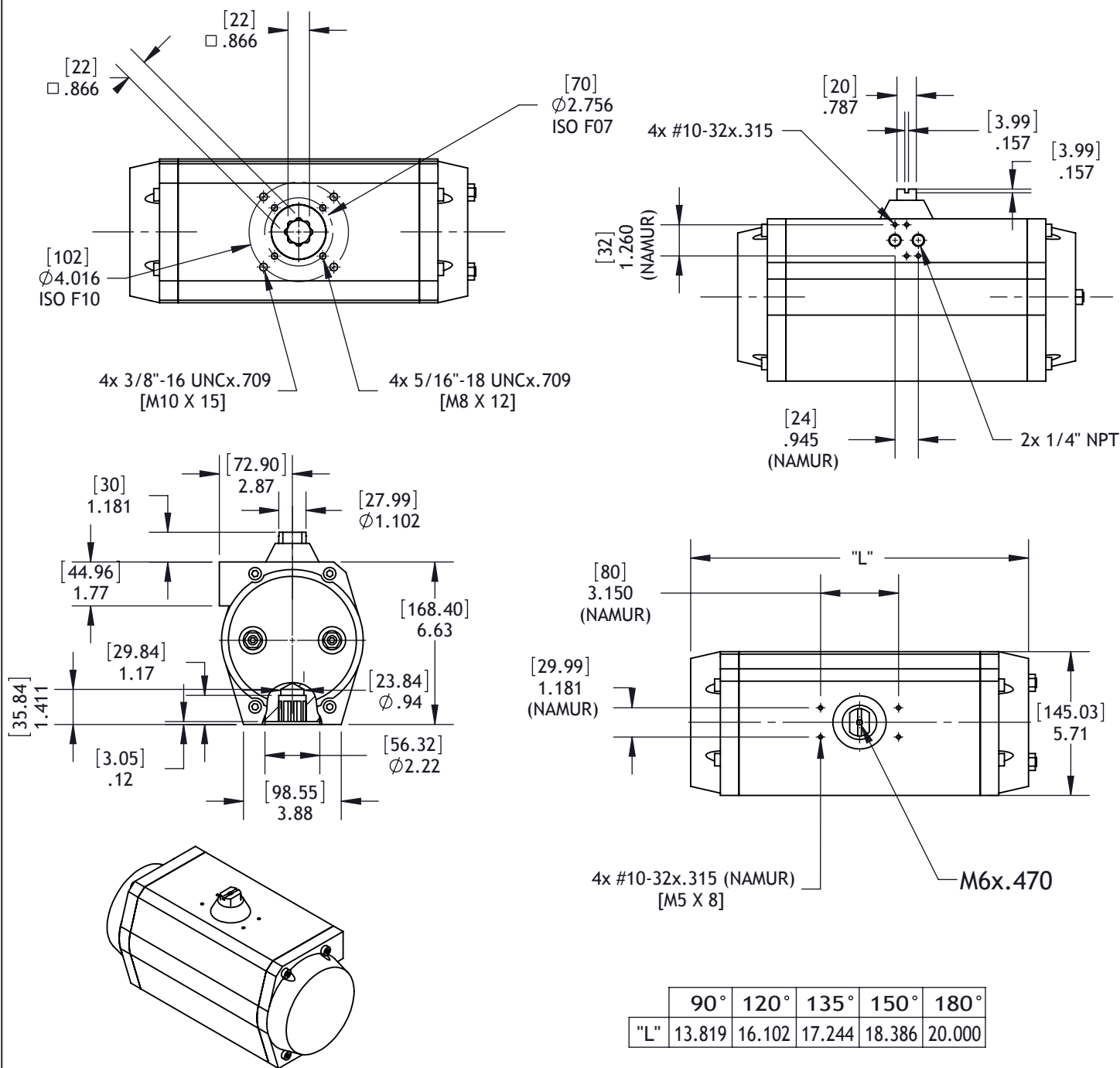
MT46
TECHNICAL DATA



MT45
DATI TECNICI

DIMENSIONS TO
ISO 5211 - DIN 3337
AND NAMUR VDI/VDE 3845

DIMENSIONS IN INCHES
[MM]



WEIGHT

| STROKE | DOUBLE ACTING | | | | | SPRING RETURN 7+5 SPRING |
|--------|---------------|------|------|------|------|-----------------------------|
| | 90° | 120° | 135° | 150° | 180° | 90° |
| LB. | 24.2 | CALL | CALL | CALL | CALL | 29.9 |

AIR CONSUMPTION (FULL CYCLE)

| | 90° | 120° | 135° | 150° | 180° |
|-----|--------|--------|--------|--------|--------|
| "L" | 13.819 | 16.102 | 17.244 | 18.386 | 20.000 |

| STROKE | DOUBLE ACTING | | | | | SPRING RETURN 7+5 SPRING |
|--------|---------------|-------|-------|-------|-------|-----------------------------|
| | 90° | 120° | 135° | 150° | 180° | 90° |
| CU-IN. | 275.0 | 343.8 | 378.1 | 412.5 | 462.5 | 115.6 |

MT-45

VALORI DI COPPIA in "Nm" TORQUE VALUES in "Nm"

DOPPIO EFFETTO DOUBLE ACTING

100 kPa = 1 Bar

| 100 kPa | 200 kPa | 300 kPa | 400 kPa | 500 kPa | 562 kPa | 600 kPa | 700 kPa | 800 kPa | 900 kPa | 1000 kPa |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| 62,8 | 125,7 | 188,7 | 251,6 | 314,5 | 352,7 | 377,4 | 440,3 | 503,2 | 566,1 | 629,0 |

SEMPLICE EFFETTO 90° SPRING RETURN 90°

100 kPa = 1 Bar

| POS. 1 COPPIA DI CHIUSURA (RITORNO MOLLE) | | POS. 2 - COPPIA DI APERTURA - POS. 2 - OPENING TORQUE | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|-------|---------|------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|----------|-------|
| | | POS. 1 CLOSING TORQUE (SPRING) | | 200 kPa | | 300 kPa | | 400 kPa | | 500 kPa | | 562 kPa | | 600 kPa | | 700 kPa | | 800 kPa | | 900 kPa | | 1000 kPa | |
| N° MOLLE # SPRINGS | | START | END | START | END | START | END | START | END | START | END | START | END | START | END | START | END | START | END | START | END | START | END |
| 1+1 | | 50,2 | 31,6 | 94,1 | 75,5 | 157,0 | 138,4 | 219,9 | 201,2 | 282,8 | 264,1 | 321,8 | 303,2 | 345,7 | 327,0 | 408,6 | 389,9 | 471,5 | 452,8 | 534,3 | 515,7 | 597,2 | 578,6 |
| 2+2 | | 100,4 | 63,1 | 62,6 | 25,3 | 125,6 | 88,3 | 188,5 | 151,2 | 251,4 | 214,1 | 289,6 | 252,3 | 314,3 | 277,0 | 377,2 | 339,9 | 440,1 | 402,8 | 502,8 | 465,5 | 565,7 | 528,4 |
| 3+3 | | 150,6 | 94,7 | -- | -- | 94,0 | 38,1 | 156,9 | 101,0 | 219,8 | 163,9 | 258,0 | 202,1 | 282,7 | 226,8 | 345,6 | 289,7 | 408,5 | 352,6 | 471,2 | 415,3 | 534,1 | 478,2 |
| 4+4 | | 200,8 | 126,2 | -- | -- | -- | -- | 125,4 | 50,8 | 188,3 | 113,7 | 226,5 | 151,9 | 251,2 | 176,6 | 314,1 | 239,5 | 377,0 | 302,4 | 439,7 | 365,1 | 502,6 | 428 |
| 5+5 | | 251,0 | 157,8 | -- | -- | -- | -- | -- | -- | 156,7 | 63,5 | 194,9 | 101,7 | 219,6 | 126,4 | 282,5 | 189,3 | 345,4 | 252,2 | 408,1 | 314,9 | 471,0 | 377,8 |
| 7+5 | | 301,2 | 189,3 | -- | -- | -- | -- | -- | -- | 125,2 | 13,3 | 163,4 | 51,5 | 188,1 | 76,2 | 251,0 | 139,1 | 313,9 | 202,0 | 376,6 | 264,7 | 439,5 | 327,6 |

MT-46

TORQUE VALUES in "IN.LB"

SPRING RETURN 90°

DOUBLE ACTING

| 40 PSIG | 60 PSIG | 80 PSIG | 100 PSIG | 120 PSIG |
|---------|---------|---------|----------|----------|
| 1562 | 2344 | 3125 | 3906 | 4687 |

| POS. 1 CLOSING TORQUE (SPRING) | | POS. 2 - OPENING TORQUE | | | | | | | | | |
|--------------------------------------|--|-------------------------|------|---------|------|---------|------|----------|------|----------|------|
| | | 40 PSIG | | 60 PSIG | | 80 PSIG | | 100 PSIG | | 120 PSIG | |
| # SPRINGS | | START | END | START | END | START | END | START | END | START | END |
| 1+1 | | 445 | 280 | 1282 | 1117 | 2064 | 1899 | 2845 | 2680 | 3626 | 3461 |
| 2+2 | | 890 | 560 | 1002 | 672 | 1784 | 1454 | 2565 | 2235 | 3346 | 3016 |
| 3+3 | | 1334 | 840 | 722 | 228 | 1504 | 1010 | 2285 | 1791 | 3066 | 2572 |
| 4+4 | | 1779 | 1120 | -- | -- | 1224 | 565 | 2005 | 1346 | 2786 | 2127 |
| 5+5 | | 2224 | 1399 | -- | -- | 945 | 120 | 1726 | 901 | 2507 | 1682 |
| 7+5 | | 2669 | 1679 | -- | -- | -- | -- | 1446 | 456 | 2227 | 1237 |

PESI - WEIGHT

| CORS STROKE | DOPPIO EFFETTO -DOUBLE ACTING | | | | | SEMPLICE EFFETTO 7+5 MOLLE SPRING RETURN 7+5 SPRING |
|----------------|-------------------------------|--------|--------|--------|--------|--|
| | 90° | 120° | 135° | 150° | 180° | 90° |
| Kg. | 12,460 | 14,220 | 15,110 | 16,020 | 17,780 | 15,020 |
| LB. | 27.47 | 31.35 | 33.31 | 35.32 | 39.20 | 33.11 |

CONSUMI ARIA (CICLO COMPLETO) AIR CONSUMPTION (FULL CYCLE)

| CORS STROKE | DOPPIO EFFETTO -DOUBLE ACTING | | | | | SEMPLICE EFFETTO 7+5 MOLLE SPRING RETURN 7+5 SPRING |
|----------------|-------------------------------|-------|-------|-------|-------|--|
| | 90° | 120° | 135° | 150° | 180° | 90° |
| N. Lt. | 4,40 | 5,50 | 6,05 | 6,60 | 7,40 | 1,85 |
| CU.-IN. | 275.0 | 343.8 | 378.1 | 412.5 | 462.5 | 115.6 |