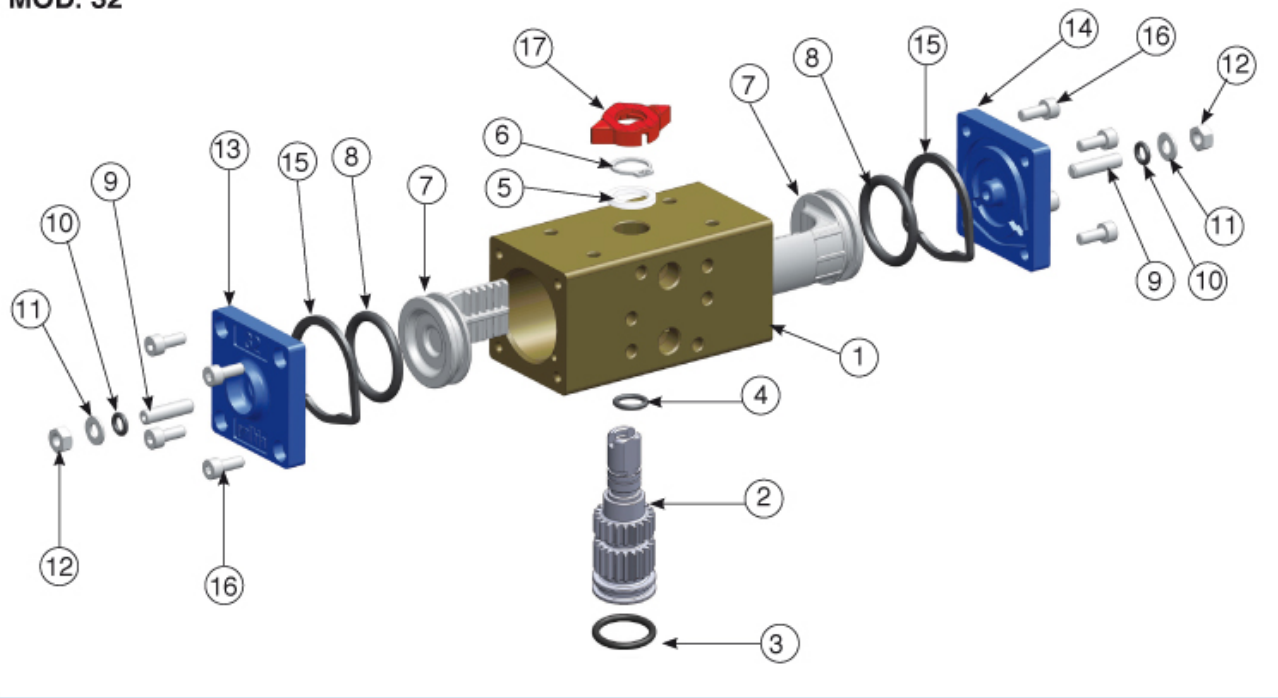
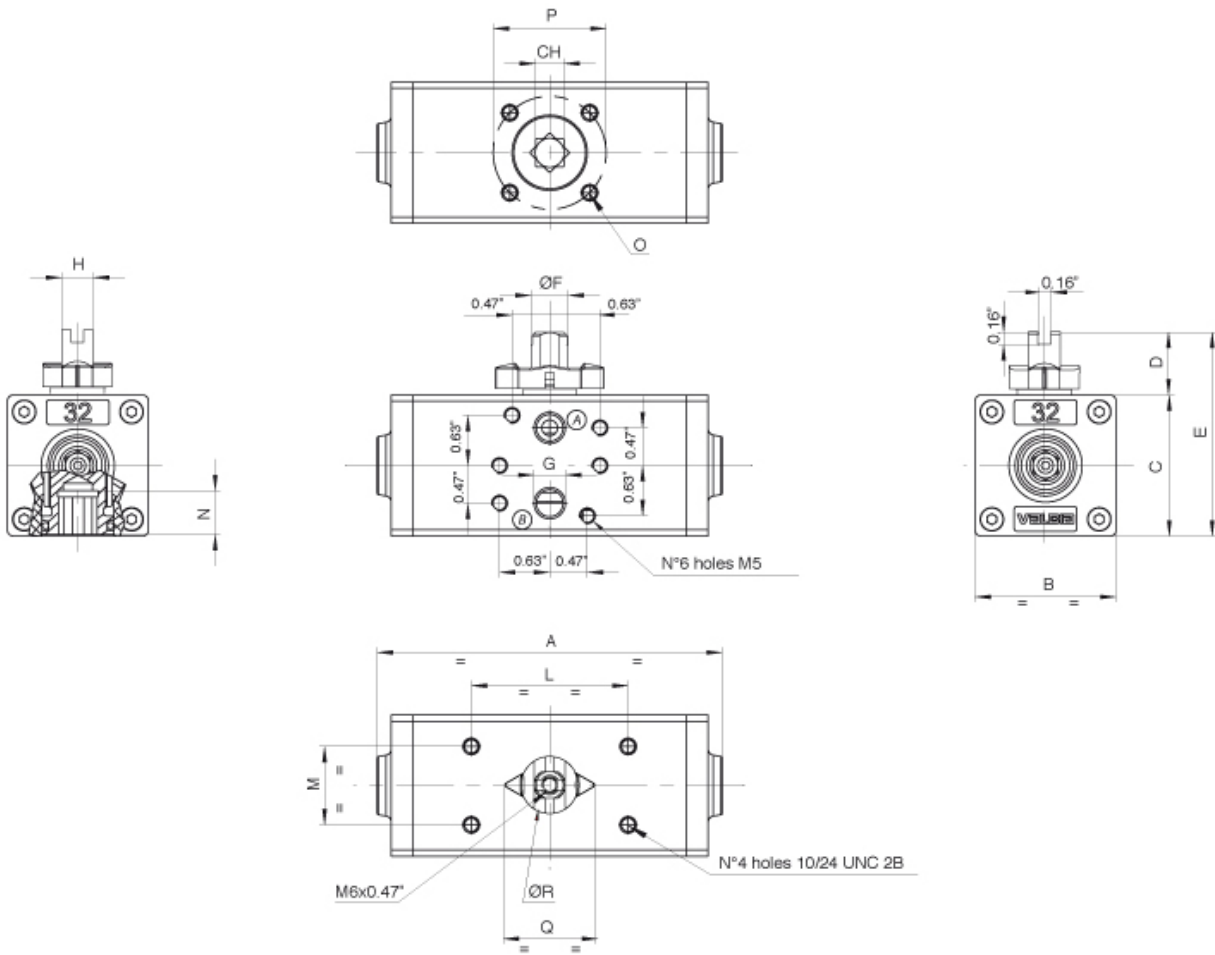


**MOD. 32**



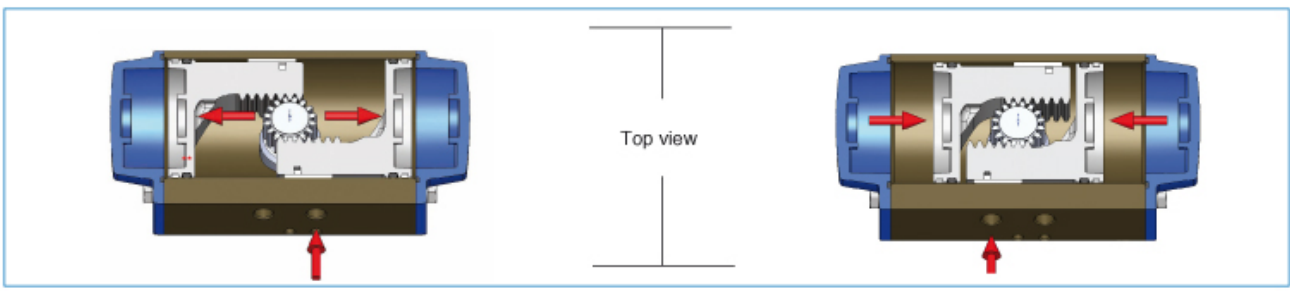
| ITEM | DESCRIPTION            | MATERIAL                 | TREATMENT     | Q.TA' |
|------|------------------------|--------------------------|---------------|-------|
| 1    | Body                   | Extruded aluminium       | Hard anodized | 1     |
| 2    | Anti-blowout pinion    | Steel                    | Nickel plated | 1     |
| • 3  | O-ring                 | NBR                      |               | 1     |
| • 4  | O-ring                 | NBR                      |               | 1     |
| • 5  | Spacer ring            | POM                      |               | 1     |
| 6    | Snap ring              | Steel                    | Nickel plated | 1     |
| 7    | Piston                 | Die cast aluminium       |               | 2     |
| • 8  | O-ring                 | NBR                      |               | 2     |
| 9    | Stop bolt              | Stainless steel          |               | 2     |
| • 10 | O-ring                 | NBR                      |               | 2     |
| 11   | Washer                 | Stainless steel          |               | 2     |
| 12   | Stop boltretaining nut | Stainless steel          |               | 2     |
| 13   | Left end cap           | Die cast aluminium       | Painted       | 1     |
| 14   | Right end cap          | Die cast aluminium       | Painted       | 1     |
| 15   | End cap seats          | NBR                      |               | 2     |
| 16   | End cap fixing screw   | Stainless steel          |               | 8     |
| 17   | Position indicator     | Thermoplastic rubber TPE |               | 1     |

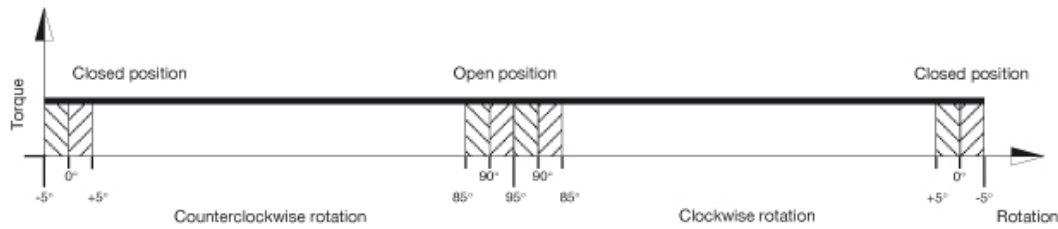
• Parts subject to wear



(A) CCW rotation      (B) CW rotation

| MOD. | DRILLING<br>ISO 5211 | CH   | A    | B    | C    | D    | E    | $\varnothing F$ | G<br>NPT | H    | L    | M    | N    | O                    | P    | Q    | $\varnothing R$ |
|------|----------------------|------|------|------|------|------|------|-----------------|----------|------|------|------|------|----------------------|------|------|-----------------|
| 32   | F03                  | 0.35 | 4.33 | 1.77 | 1.77 | 0.79 | 2.56 | 0.46            | 1/8"     | 0.39 | 1.97 | 0.98 | 0.47 | 10-24 UNC<br>2Bx0.30 | 1.42 | 1.36 | 0.87            |





With reference to the above diagram it can be noted that the torque of a double acting actuator remains constant through-out the complete action. The user can decide on which model to choose according to his/her own specific requirements, using the following guidelines:

1. Define the maximum torque of the valve to automate.
2. To obtain a safety factor increase the torque value chosen by 25-50% (subject to the type of valve and working conditions).
3. Once the torque value suggested is obtained consult the torque chart and in relation to the corresponding air pressure find a torque value exact to or exceeding the one obtained.
4. Once the torque value is determined move horizontally to the column "model" to find the actuator model required.

| TYPE  | AIR SUPPLY PRESSURE (psi)                      |    |    |    |    |    |     |     |
|-------|--|----|----|----|----|----|-----|-----|
|       | 40   | 50 | 60 | 70 | 80 | 90 | 100 | 115 |
|       | TORQUE OUTPUT DOUBLE ACTING ACTUATORS (in-Lbs) |    |    |    |    |    |     |     |
| DA 52 | 34   | 43 | 55 | 64 | 71 | 82 | 87  | 101 |

| MOD. | DRILLING<br>ISO 5211 | CH   | A    | B    | C    | D    | E    | ØF   | G<br>NPT | H    | L    | M    | N    | O                    | P    | Q    | øR   |
|------|----------------------|------|------|------|------|------|------|------|----------|------|------|------|------|----------------------|------|------|------|
| 32   | F03                  | 0.35 | 4.33 | 1.77 | 1.77 | 0.79 | 2.56 | 0.46 | 1/8"     | 0.39 | 1.97 | 0.98 | 0.47 | 10-24 UNC<br>2Bx0.30 | 1.42 | 1.36 | 0.87 |

| WORKING TIME (SEC)             |     |      |
|--------------------------------|-----|------|
| COUNTERCLOCKWISE ROTATION (DA) | CCW | 0.03 |
| CLOCKWISE ROTATION (DA)        | CW  | 0.03 |

| WEIGHT CHART (Lbs) |      |
|--------------------|------|
| DOUBLE ACTING      | 1,08 |

| ACTUATOR AIR CONSUMPTION CHART    |     |  |
|-----------------------------------|-----|--|
|                                   |     | Litres: 1 Litre = 1000 cm <sup>3</sup> |
| COUNTERCLOCKWISE ROTATION (DA/SR) | CCW | 2,44                                   |
| CLOCKWISE ROTATION (DA)           | CW  | 1,83                                   |

To obtain the air consumption in NI/min multiply the value in the chart for the correct parameters. That is to say for the supplied absolute pressure and the number of strokes in a minute.