



**VALUE**

Value in Valving

# OPERATORS



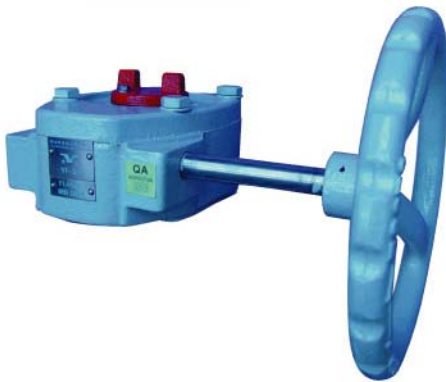
**BUTTERFLY VALVES & CONTROLS**  
**[www.bvcusa.com](http://www.bvcusa.com)**

# ***OPERATORS***

**LEVER OPERATOR**



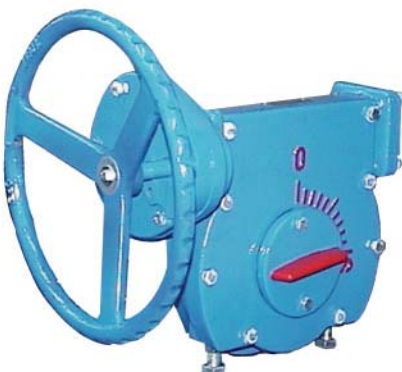
**GEAR OPERATOR**



**Pneumatic Operators**

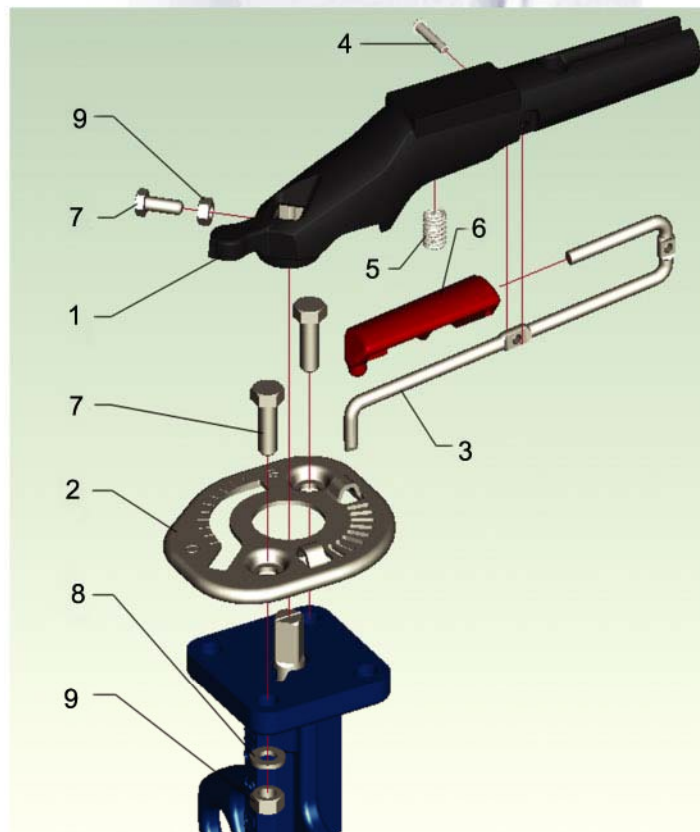
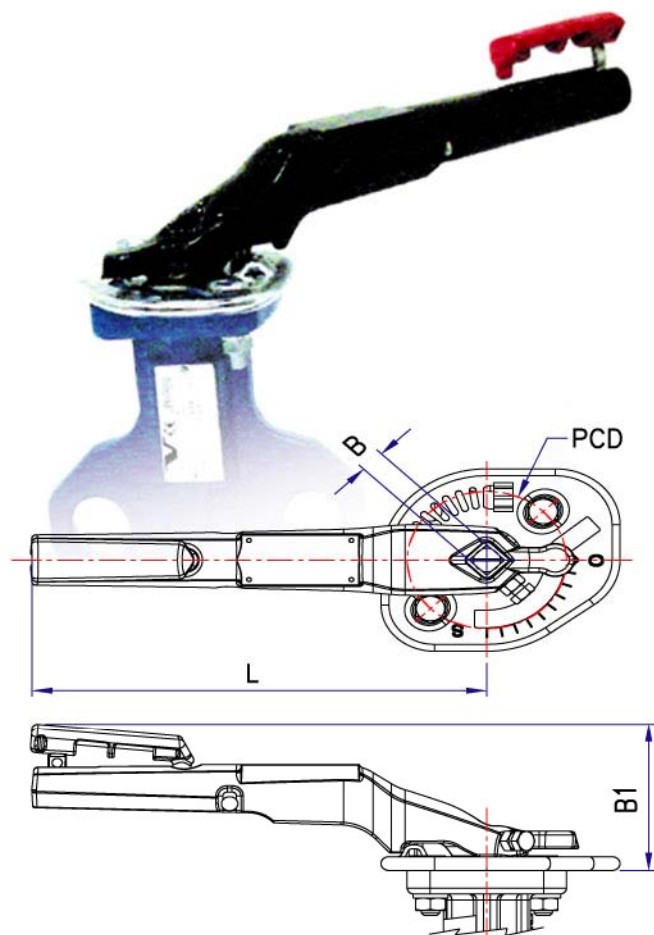


**GEAR OPERATOR**



**Electric Actuator**





| No. | Name      | Materials                       |
|-----|-----------|---------------------------------|
| 1   | HANDLE    | DUCTILE IRON<br>STAINLESS STEEL |
| 2   | INDICATOR | STAINLESS STEEL<br>STEEL        |
| 3   | TRIGGER   | STAINLESS STEEL                 |
| 4   | RIVET     | STAINLESS STEEL                 |
| 5   | SPRING    | STAINLESS STEEL                 |

| No. | Name          | Materials                |
|-----|---------------|--------------------------|
| 6   | SECURE HOLDER | PLASTIC                  |
| 7   | BOLT          | STEEL<br>STAINLESS STEEL |
| 8   | SPRING WASHER | STEEL<br>STAINLESS STEEL |
| 9   | NUT           | STEEL<br>STAINLESS STEEL |

| Series No. | Dimensions |      |                               |      |      | Mounting flange<br>(ISO 5211) |      | Weight<br>lbs |
|------------|------------|------|-------------------------------|------|------|-------------------------------|------|---------------|
|            | L          | B1   | Allowable Valve Stem Diameter |      |      | Type                          | B.C. |               |
| L 7A       | 7.87       | 2.95 | Min                           | Max  | □B   | F07                           | 2.76 | 1.54          |
| L 7B       | 9.84       | 2.95 | 0.51                          | 0.55 | 0.43 | F07                           | 2.76 | 1.76          |
| L 10       | 13.98      | 3.31 | 0.55                          | 0.75 | 0.55 | F10                           | 4.02 | 3.52          |
|            |            |      |                               |      | 0.67 |                               |      |               |
|            |            |      |                               |      | 0.87 |                               |      |               |

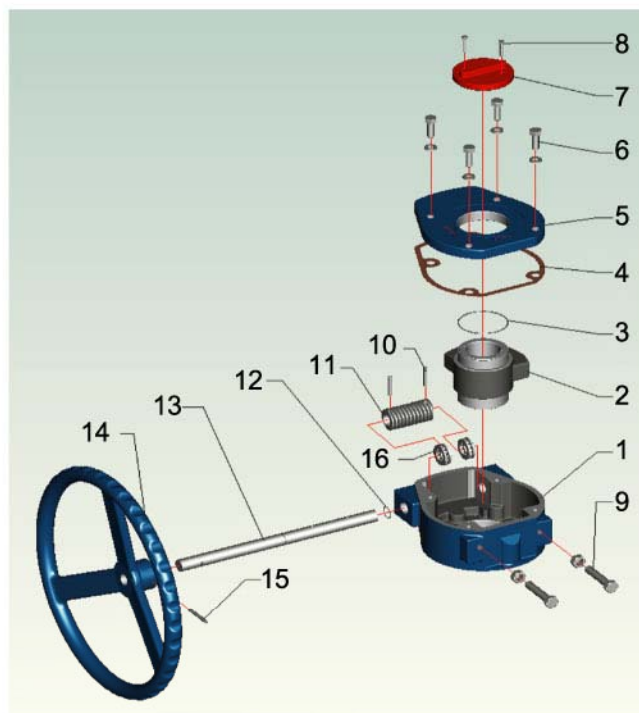
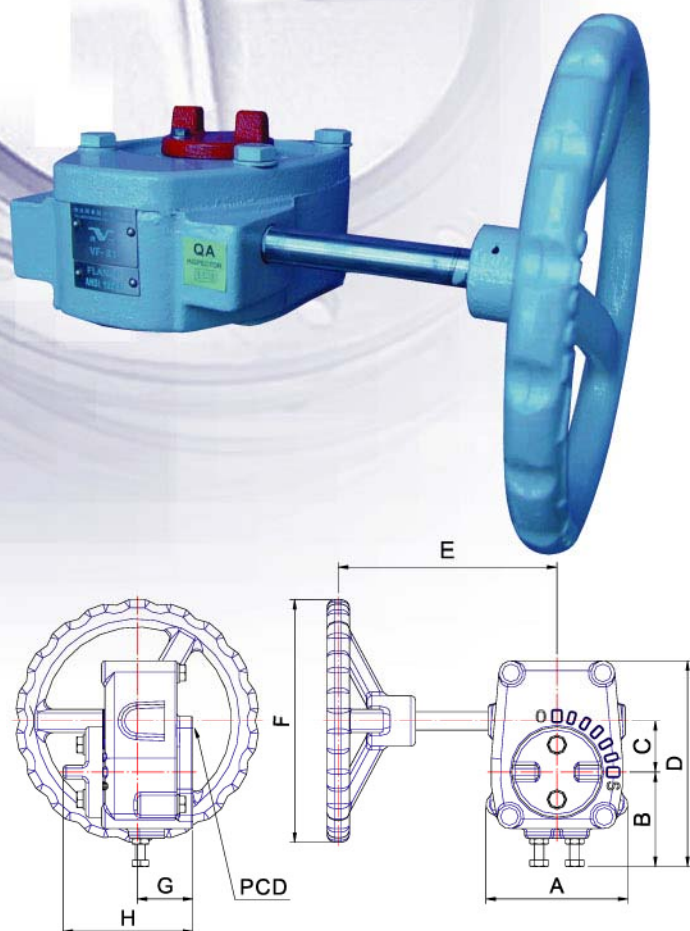




# GEAR OPERATOR

SERIES NO.:

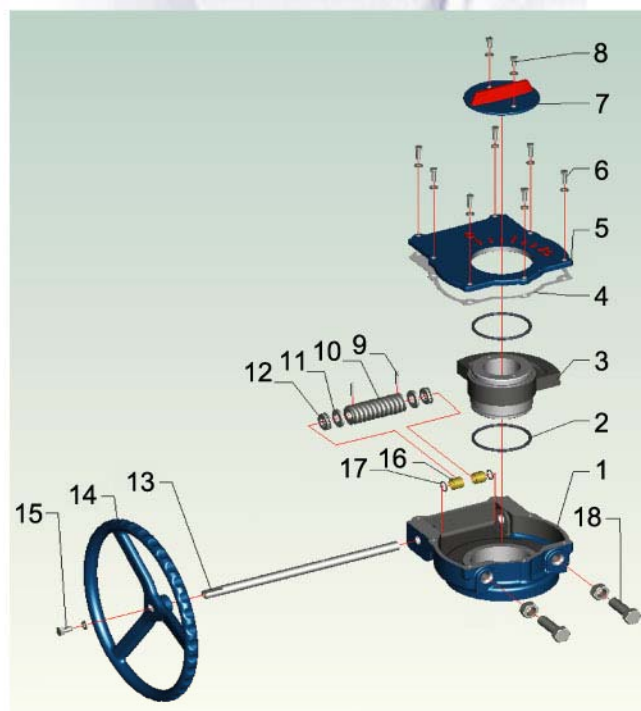
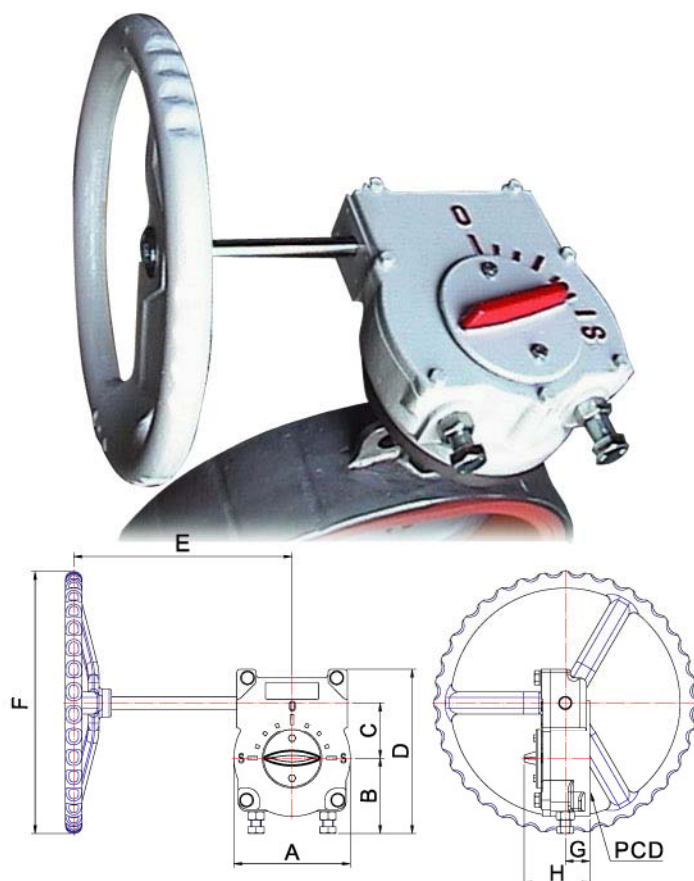
C 07 C 12  
C 10 C 14



| No. | Name      | Materials    |
|-----|-----------|--------------|
| 1   | BODY      | CAST IRON    |
| 2   | WORM GEAR | DUCTILE IRON |
| 3   | O-RING    | NBR          |
| 4   | PACKING   | PAPER        |
| 5   | COVER     | CAST IRON    |
| 6   | BOLT      | STEEL        |
| 7   | INDICATOR | CAST IRON    |
| 8   | BOLT      | STEEL        |

| No. | Name       | Materials |
|-----|------------|-----------|
| 9   | STOP BOLT  | STEEL     |
| 10  | SPRING PIN | STEEL     |
| 11  | WORM       | STEEL     |
| 12  | O-RING     | NBR       |
| 13  | WORM SHAFT | STEEL     |
| 14  | HANDWHEEL  | CAST IRON |
| 15  | SPRING PIN | STEEL     |
| 16  | BEARING    | STEEL     |

| Series No. | Allowable Valve Stem Diameter |      |      | Dimensions |      |      |      |       |       |      |      | Mounting flange (ISO 5211) |      | Gear ratio | Weight lbs |
|------------|-------------------------------|------|------|------------|------|------|------|-------|-------|------|------|----------------------------|------|------------|------------|
|            | Depth                         | Min  | Max  | A          | B    | C    | D    | E     | F     | G    | H    | Type                       | PCD  |            |            |
| C 07       | 2.28                          | 0.51 | 0.75 | 3.43       | 1.93 | 1.61 | 5.12 | 6.10  | 5.91  | 1.46 | 3.19 | F07                        | 2.76 | 1:40       | 7.26       |
| C 10       | 2.56                          | 0.75 | 1.10 | 4.61       | 3.19 | 2.48 | 6.93 | 7.68  | 7.87  | 1.63 | 3.58 | F10                        | 4.02 | 1:36       | 16.50      |
| C 12       | 2.68                          | 0.98 | 1.38 | 6.02       | 3.82 | 2.40 | 7.32 | 9.13  | 12.20 | 1.61 | 3.46 | F12                        | 4.92 | 1:36       | 19.80      |
| C 14       | 3.74                          | 1.26 | 1.97 | 7.13       | 4.02 | 3.19 | 8.78 | 11.02 | 15.75 | 2.05 | 4.61 | F14                        | 5.51 | 1:52       | 48.40      |

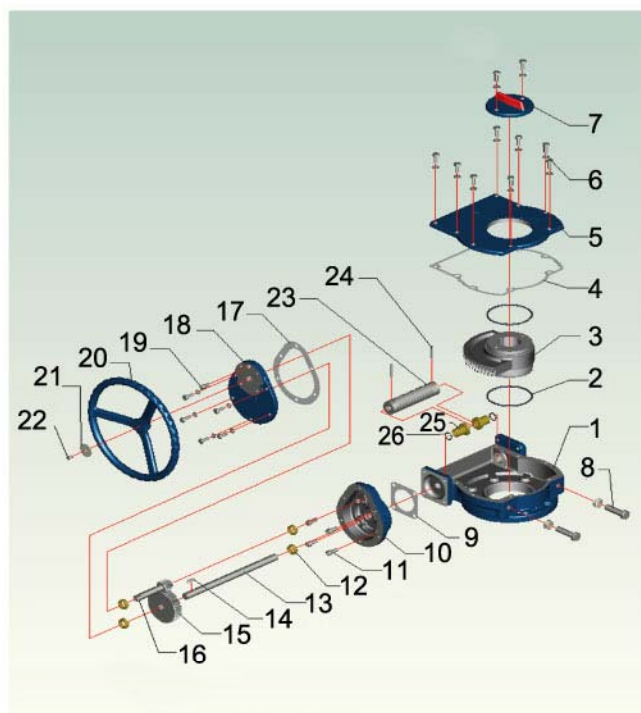
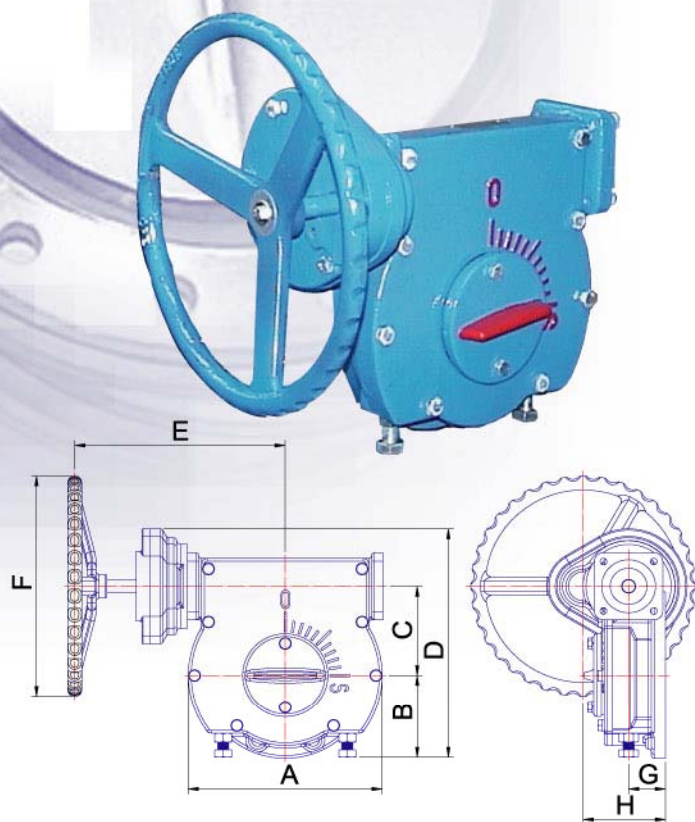


| No. | Name       | Materials    |
|-----|------------|--------------|
| 1   | BODY       | CAST IRON    |
| 2   | O-RING     | NBR          |
| 3   | WORM GEAR  | DUCTILE IRON |
| 4   | PACKING    | PAPER        |
| 5   | COVER      | CAST IRON    |
| 6   | BOLT       | STEEL        |
| 7   | INDICATOR  | CAST IRON    |
| 8   | BOLT       | STEEL        |
| 9   | SPRING PIN | STEEL        |

| No. | Name        | Materials |
|-----|-------------|-----------|
| 10  | WORM        | STEEL     |
| 11  | THRUST RING | STEEL     |
| 12  | BEARING     | STEEL     |
| 13  | WORM SHAFT  | STEEL     |
| 14  | HANDWHEEL   | CAST IRON |
| 15  | BOLT        | STEEL     |
| 16  | BUSHING     | COPPER    |
| 17  | O-RING      | NBR       |
| 18  | STOP BOLT   | STEEL     |

| Series No. | Allowable Valve Stem Diameter |      |      | Dimensions |      |      |       |       |       |      |      | Mounting flange (ISO 5211) |      | Gear ratio |
|------------|-------------------------------|------|------|------------|------|------|-------|-------|-------|------|------|----------------------------|------|------------|
|            | Depth                         | Min  | Max  | A          | B    | C    | D     | E     | F     | G    | H    | Type                       | PCD  |            |
| AB         | 2.56                          | 0.51 | 0.75 | 5.51       | 2.72 | 2.01 | 6.50  | 7.44  | 5.91  | 1.42 | 3.19 | F07                        | 2.76 | 01:40      |
| AA         | 2.56                          | 0.75 | 1.10 | 5.51       | 2.72 | 2.01 | 6.50  | 7.95  | 7.87  | 1.42 | 3.19 | F10                        | 4.02 | 01:36      |
| A0         | 2.76                          | 0.98 | 1.38 | 5.91       | 3.27 | 2.36 | 7.20  | 10.83 | 12.20 | 1.50 | 3.35 | F12                        | 4.92 | 01:36      |
| A1         | 2.87                          | 1.26 | 1.97 | 6.89       | 4.45 | 3.31 | 9.88  | 12.91 | 15.75 | 1.46 | 3.90 | F14                        | 5.51 | 01:52      |
| A2         | 3.82                          | 1.77 | 3.15 | 9.88       | 4.45 | 4.84 | 11.54 | 12.09 | 15.75 | 2.20 | 5.00 | F16                        | 6.50 | 1:70       |

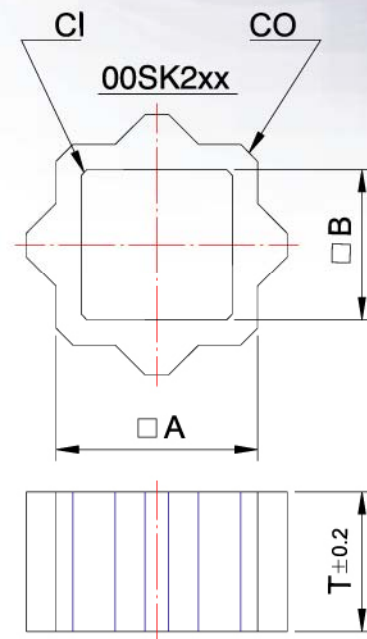
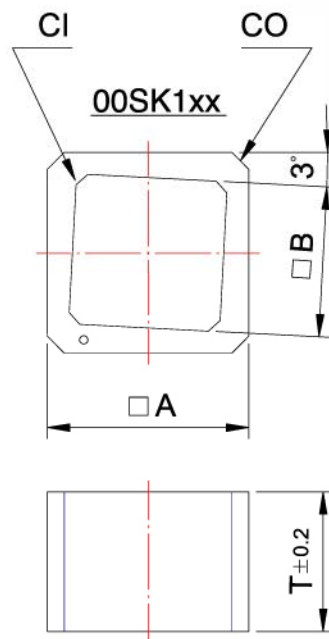
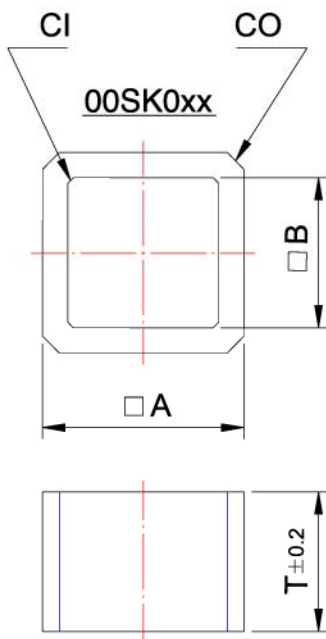




| No. | Name           | Materials    |
|-----|----------------|--------------|
| 1   | BODY           | CAST IRON    |
| 2   | O-RING         | NBR          |
| 3   | WORM GEAR      | DUCTILE IRON |
| 4   | PACKING        | PAPER        |
| 5   | COVER          | CAST IRON    |
| 6   | BOLT           | STEEL        |
| 7   | INDICATOR      | CAST IRON    |
| 8   | STOP BOLT      | STEEL        |
| 9   | PACKING        | PAPER        |
| 10  | SPUR GEAR BODY | CAST IRON    |
| 11  | SOCKET BOLT    | STEEL        |
| 12  | BEARING        | COPPER       |
| 13  | WORM SHAFT     | STEEL        |

| No. | Name             | Materials |
|-----|------------------|-----------|
| 14  | KEY              | STEEL     |
| 15  | SPUR GEAR        | STEEL     |
| 16  | SPUR GEAR SHAFT  | STEEL     |
| 17  | PACKING          | PAPER     |
| 18  | SPUR GEAR COVER  | CAST IRON |
| 19  | BOLT             | STEEL     |
| 20  | HANDWHEEL        | CAST IRON |
| 21  | INDICATED WASHER | STEEL     |
| 22  | BOLT             | STEEL     |
| 23  | WORM             | STEEL     |
| 24  | SPRING PIN       | STEEL     |
| 25  | BUSHING          | COPPER    |
| 26  | O-RING           | NBR       |

| Series No. | Allowable Valve Stem Diameter |      |      | Dimensions |      |      |       |       |       |      |      | Mounting flange (ISO 5211) |       | Gear ratio |
|------------|-------------------------------|------|------|------------|------|------|-------|-------|-------|------|------|----------------------------|-------|------------|
|            | Depth                         | Min  | Max  | A          | B    | C    | D     | E     | F     | G    | H    | Type                       | PCD   |            |
| A3+S3      | 4.45                          | 2.76 | 3.74 | 13.43      | 5.83 | 6.30 | 16.18 | 14.57 | 15.75 | 2.56 | 5.71 | FO7                        | 10.00 | 1:270      |
| A4+S4      | 7.09                          | 3.33 | 4.53 | 16.22      | 9.80 | 7.76 | 22.80 | 18.54 | 23.62 | 3.39 | 7.72 | F10                        | 11.73 | 1:360      |



## SOCKET DIMENSIONAL TABLE

| Series No. | A (mm/in.) | B (mm/in.) | T  | CI  | CO  |
|------------|------------|------------|----|-----|-----|
| 00SK001    | 14 / .55   | 11 / .43   | 15 | 0   | 1   |
| 00SK002    | 17 / .67   | 11 / .43   | 20 | 1   | 2   |
| 00SK003    | 17 / .67   | 14 / .55   | 20 | 1   | 2   |
| 00SK004    | 22 / .86   | 11 / .43   | 25 | 1   | 3   |
| 00SK005    | 22 / .86   | 14 / .55   | 25 | 1   | 3   |
| 00SK006    | 22 / .86   | 17 / .67   | 25 | 1   | 3   |
| 00SK007    | 22 / .86   | 19 / .75   | 25 | 1   | 2.1 |
| 00SK008    | 27 / 1.06  | 22 / .86   | 25 | 1.5 | 2   |
| 00SK009    | 36 / 1.42  | 27 / 1.06  | 25 | 1   | 3   |
| 00SK010    | 36 / 1.42  | 32 / 1.26  | 25 | 1   | 3   |
| 00SK101    | 14 / .55   | 11 / .43   | 15 | 0   | 1   |
| 00SK102    | 17 / .67   | 11 / .43   | 20 | 1   | 2   |
| 00SK103    | 17 / .67   | 14 / .55   | 20 | 1   | 2   |

| Series No. | A (mm/in.) | B (mm/in.) | T  | CI  | CO  |
|------------|------------|------------|----|-----|-----|
| 00SK104    | 22 / .86   | 11 / .43   | 25 | 1   | 3   |
| 00SK105    | 22 / .86   | 14 / .55   | 25 | 1   | 3   |
| 00SK106    | 22 / .86   | 17 / .67   | 25 | 1   | 3   |
| 00SK107    | 22 / .86   | 19 / .75   | 25 | 1   | 2.1 |
| 00SK108    | 27 / 1.06  | 22 / .86   | 25 | 1.5 | 2   |
| 00SK109    | 36 / 1.42  | 27 / 1.06  | 25 | 1   | 3   |
| 00SK110    | 36 / 1.42  | 32 / 1.26  | 25 | 1   | 3   |
| 00SK201    | 17 / .67   | 14 / .55   | 20 | 1   | 1.5 |
| 00SK202    | 22 / .86   | 17 / .67   | 25 | 1   | 1.5 |
| 00SK203    | 27 / 1.06  | 22 / .86   | 25 | 1   | 1.5 |
| 00SK204    | 36 / 1.42  | 27 / 1.06  | 25 | 1   | 2   |
| 00SK205    | 46 / 1.81  | 36 / 1.42  | 25 | 1.5 | 3.5 |

# pneumatic OPERATORS

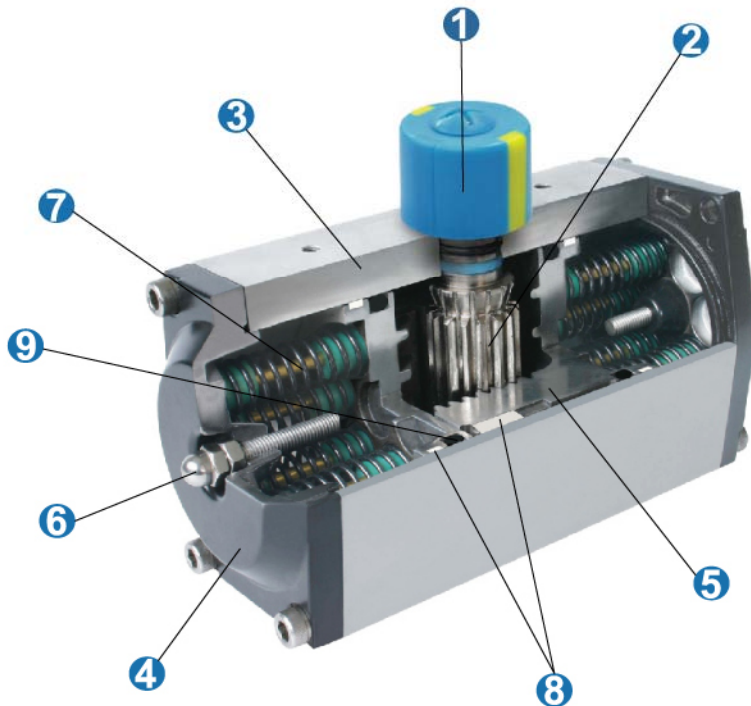






# RPB Series Features and Benefits

RPB Series Pneumatic Actuators offer excellent quality and workmanship in a compact, efficient unit. Through state-of-the-art design, the RPB series features high reliability, high cycle life, durability, and ease of maintenance as well as CW (closed) adjustment on double acting actuators. Excellent coatings make this a very good choice in most corrosive applications



**7.** Springs are small, individually encapsulated and coated allowing the actuator spring stroke to be tailored to the specific application with ease.

**8.** Delrin Wear Pads eliminate any metal to metal contact, and allow actuator to operate with minimum friction. Replacement is easy and inexpensive

**9.** O - Rings Seals on the Rack and on the Pinion provide bubble tight seal to 120 psig. Removal is easy and inexpensive. Buna is standard, high and low temperature O-rings are available



**1.** Top Stem is Namur mount for ease of mounting Namur accessories such as limit switches, and positioners. Actuator comes standard with plastic position indicator.

**2.** Pinion is precision machined of alloy steel and nickel plated for maximum strength. Top and bottom dimensions are ISO 5211 and Namur. Stainless Steel Pinion is available.

**3.** Actuator Body is precision extruded aluminum alloy ASTM 6005, hard anodized and powder polyester coated for maximum corrosion resistance. Nickel Plating is also available.

**4.** End Caps are die-cast aluminum powder coated. Nickel plating is also available.

**5.** Dual Racks are die-cast aluminum then hard anodized. Balanced racks provide long life in high cycle applications

**6.** Travel Stops allow + 5 degree adjustment of closed position on double acting actuators



# RPC Series Features and Benefits

The RPC Series Pneumatic Actuator is an Aluminum Rack and Pinion Actuator available in Double Acting and Spring Return. This actuator offers a multifunction top indicator and travel adjustments in both the Open and Closed positions as standard. The Top Works and Solenoid are per Namur Standards, the Bottom Works are per ISO-5211 International Standards.



## Features :

### 1.Indicator

Position indicator features Namur Mounting for accessories such as Limit Switches and Positioners.

### 2.Pinion

Precision machined of Nickel Alloy Steel and meets ISO-5211 International Standards.

### 3.Body

Extruded Aluminum of Alloy ASTM 6005 is Hard Anodized and Powder Polyester Coated. Optional Nickel Coating is available.

### 4.End Caps

Die Cast Aluminum, Polyester Powder Coated. The addition of Springs requires no modification of actuator or end caps.

### 5.Pistons

Balanced Twin Pistons are Die Cast of Aluminum and Hard Anodized. Galvanized Cast Steel is available. Rotation may be reversed very easily.

### 6.Travel Adjustments

Two Independent Travel Stops, mounted on the Pinion, allow adjustments + 5 Degrees in the Open and Closed positions.

### 7 High Performance Springs

Preloaded, Coated Springs are made of high quality steel to resist corrosion and offer long cycle life. The actuator may be loaded with a variable number of springs to match the operating characteristics of the valve.

### 8 Bearings and Guides

Made of Wear Resistant Delrin, these pads isolate the metal parts in the actuator and offer exceptional high cycle life and stability.

### 9 O-Rings

NBR (Buna N) is standard, providing trouble free operation in most operating temperatures, however Viton and Silicone are available for more demanding high and low temperature applications





# SPECIAL STROKE ACTUATORS



## Extended Stroke Actuators

Series B Special Stroke Pneumatic Actuator  
Available in 60,120,145,180 and 360 Degree  
Strokes

Available in 3 - Position Dribble Controls  
Utilizing Limit Switch Box and  
Solenoids

Available with Long Stops  
ISO-5211 Valve Mounting  
Namur Accessory Mounting

## Stainless Steel Actuators

Series A Pneumatic Actuator  
Available in 316L, 316, 304, 303  
Stainless Steel makes this an  
excellent choice for most aggressive  
applications.

Stainless Steel Hardware is standard 304  
Pistons and Pinion are standard 304SS.  
Valve Mounting is ISO-5211  
Accessory Mounting is Namur



## Manual DeClutchable Override

ISO-5211 Mounting  
Sandwiches between Valve and Actuator  
Wrench Operated Clutch Mechanism  
Standard with Grease Serts  
Oversize Handwheel for Easy Operation





# RPB & C Series Pneumatic Actuators

## Torques - Double Acting

| Model     | 40    | 60    | 80    | 100   | 120   |
|-----------|-------|-------|-------|-------|-------|
| RPB/C30   | 192   | 256   | 347   | 447   | 511   |
| RPB/C50   | 267   | 357   | 491   | 624   | 712   |
| RPB/C75   | 414   | 552   | 753   | 966   | 1104  |
| RPB/C110  | 604   | 804   | 1109  | 1408  | 1609  |
| RPB/C160  | 873   | 1165  | 1608  | 2037  | 2328  |
| RPB/C250  | 1361  | 1815  | 2606  | 3176  | 3630  |
| RPB/C428  | 2328  | 3105  | 4288  | 5433  | 6209  |
| RPB/C653  | 3548  | 4731  | 9535  | 8279  | 9462  |
| RPB/C1053 | 5718  | 7624  | 10530 | 13342 | 15249 |
| RPB/C1286 | 6985  | 9314  | 12864 | 16299 | 18627 |
| RPB/C1890 | 10264 | 13686 | 18902 | 23950 | 27371 |
| RPB/C2870 | 15588 | 20785 | 28702 | 36374 | 41570 |

## RPB Torques - Spring Return

| Model    | Spring Start | Spring End | 60    |     | 80    |      | 100   |      | 120   |      |
|----------|--------------|------------|-------|-----|-------|------|-------|------|-------|------|
|          |              |            | Start | End | Start | End  | Start | End  | Start | End  |
| RPB/C30  |              |            |       |     |       |      |       |      |       |      |
| 5        | 156          | 102        | 332   | 278 |       |      |       |      |       |      |
| 6        | 188          | 123        | 311   | 246 |       |      |       |      |       |      |
| 7        | 219          | 144        | 290   | 215 | 434   | 359  |       |      |       |      |
| 8        | 251          | 164        | 270   | 183 | 414   | 327  | 594   | 507  |       |      |
| 9        | 282          | 185        | 249   | 152 | 393   | 296  | 573   | 476  | 681   | 584  |
| 10       | 314          | 206        |       |     | 372   | 264  | 552   | 444  | 660   | 552  |
| 11       | 344          | 225        |       |     | 353   | 234  | 533   | 414  | 641   | 522  |
| 12       | 375          | 246        |       |     |       |      | 512   | 383  | 620   | 491  |
| RPB/C50  |              |            |       |     |       |      |       |      |       |      |
| 5        | 218          | 158        | 447   | 387 |       |      |       |      |       |      |
| 6        | 261          | 191        | 414   | 344 |       |      |       |      |       |      |
| 7        | 305          | 222        | 383   | 300 | 583   | 501  |       |      |       |      |
| 8        | 348          | 254        | 351   | 257 | 552   | 457  | 804   | 710  |       |      |
| 9        | 392          | 285        | 320   | 213 | 520   | 414  | 773   | 666  | 923   | 816  |
| 10       | 435          | 317        |       |     | 489   | 370  | 741   | 623  | 891   | 773  |
| 11       | 479          | 348        |       |     | 457   | 327  | 710   | 579  | 860   | 729  |
| 12       | 521          | 380        |       |     |       |      | 678   | 537  | 828   | 687  |
| RPB/C75  |              |            |       |     |       |      |       |      |       |      |
| 5        | 345          | 237        | 699   | 591 |       |      |       |      |       |      |
| 6        | 414          | 285        | 651   | 522 |       |      |       |      |       |      |
| 7        | 483          | 332        | 605   | 453 | 917   | 765  |       |      |       |      |
| 8        | 552          | 380        | 557   | 384 | 869   | 696  | 1259  | 1086 |       |      |
| 9        | 621          | 428        | 509   | 315 | 821   | 627  | 1211  | 1017 | 1445  | 1251 |
| 10       | 690          | 474        |       |     | 774   | 558  | 1164  | 948  | 1398  | 1182 |
| 11       | 759          | 522        |       |     | 726   | 489  | 1116  | 879  | 1350  | 1113 |
| 12       | 828          | 570        |       |     |       |      | 1068  | 810  | 1302  | 1044 |
| RPB/C110 |              |            |       |     |       |      |       |      |       |      |
| 5        | 516          | 350        | 1014  | 848 |       |      |       |      |       |      |
| 6        | 618          | 420        | 944   | 746 |       |      |       |      |       |      |
| 7        | 722          | 491        | 873   | 642 | 1327  | 1096 |       |      |       |      |
| 8        | 825          | 560        | 804   | 554 | 1258  | 993  | 1827  | 1562 |       |      |
| 9        | 929          | 630        | 734   | 435 | 1188  | 889  | 1757  | 1458 | 2097  | 1697 |
| 10       | 1031         | 701        |       |     | 1117  | 787  | 1686  | 1356 | 2027  | 1593 |
| 11       | 1134         | 771        |       |     | 1047  | 684  | 1616  | 1253 | 1956  | 1490 |
| 12       | 1238         | 840        |       |     |       |      | 1547  | 1149 | 1887  | 0    |



# RPB & C Series Pneumatic Actuators

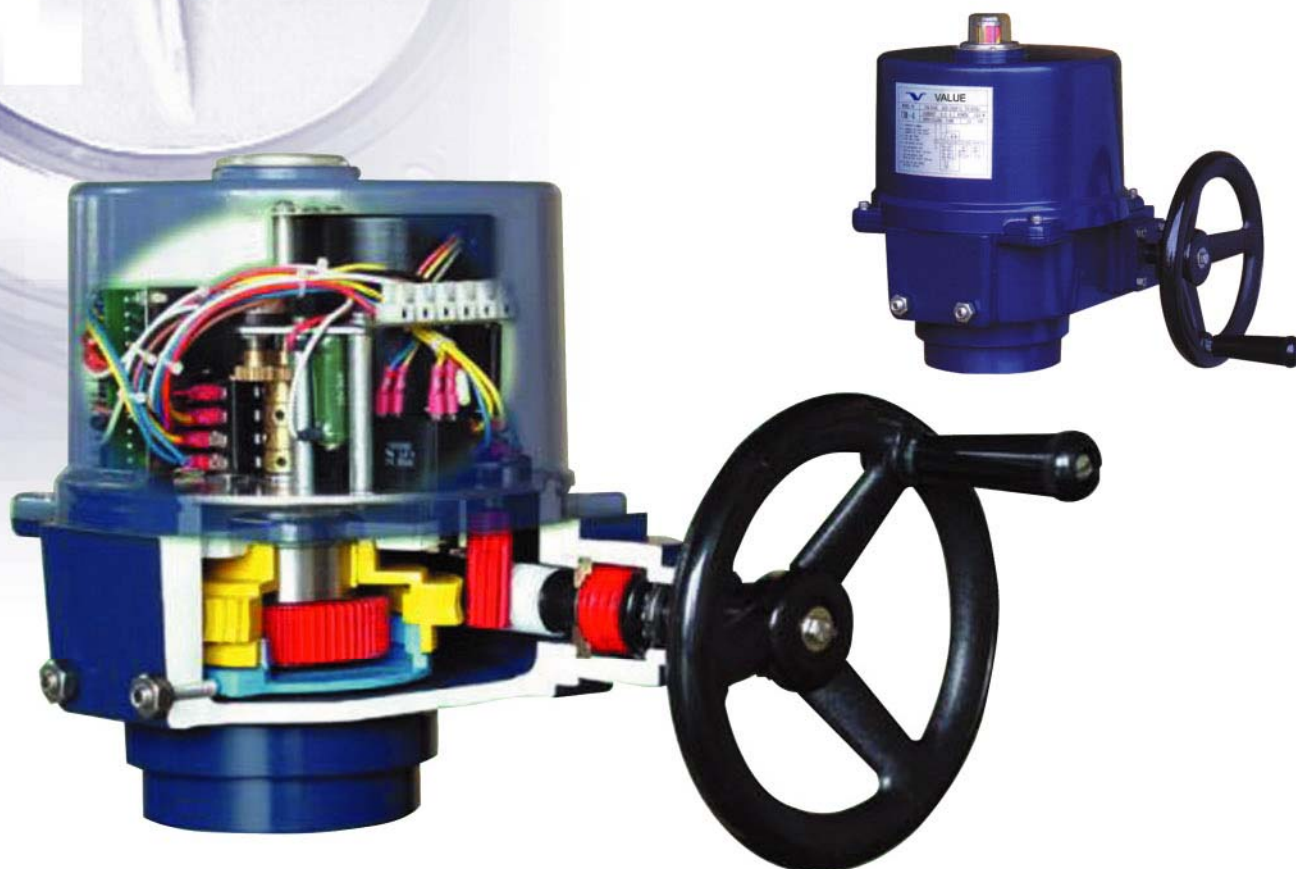
| Model     | Spring<br>Start | Spring<br>End | 60    |       | 80    |       | 100   |       | 120   |       |
|-----------|-----------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                 |               | Start | End   | Start | End   | Start | End   | Start | End   |
| RPB/C160  |                 |               |       |       |       |       |       |       |       |       |
| 5         | 738             | 474           | 1500  | 1236  |       |       |       |       |       |       |
| 6         | 887             | 570           | 1404  | 1088  |       |       |       |       |       |       |
| 7         | 1034            | 665           | 1310  | 941   | 1966  | 1597  |       |       |       |       |
| 8         | 1181            | 759           | 1215  | 794   | 1872  | 1450  | 2694  | 2273  |       |       |
| 9         | 1329            | 854           | 1121  | 645   | 1777  | 1302  | 2600  | 2124  | 3093  | 2618  |
| 10        | 1476            | 950           |       |       | 1681  | 1155  | 2504  | 1977  | 2997  | 2471  |
| 11        | 1625            | 1044          |       |       | 1587  | 1006  | 2409  | 1829  | 2903  | 2322  |
| 12        | 1772            | 1125          |       |       |       |       | 2315  | 1682  | 2808  | 2175  |
| RPB/C250  |                 |               |       |       |       |       |       |       |       |       |
| 5         | 1176            | 786           | 2291  | 1901  |       |       |       |       |       |       |
| 6         | 1412            | 942           | 2135  | 1665  |       |       |       |       |       |       |
| 7         | 1646            | 1100          | 1977  | 1431  | 3003  | 2457  |       |       |       |       |
| 8         | 1881            | 1257          | 1820  | 1196  | 2845  | 2221  | 4127  | 3503  |       |       |
| 9         | 2117            | 1413          | 1664  | 960   | 2689  | 1986  | 3971  | 3267  | 4740  | 4037  |
| 10        | 2352            | 1571          |       |       | 2532  | 1750  | 3813  | 3032  | 4583  | 3801  |
| 11        | 2586            | 1728          |       |       | 2374  | 1516  | 3656  | 2798  | 4425  | 3567  |
| 12        | 2822            | 1886          |       |       |       |       | 3498  | 2562  | 4268  | 3332  |
| RPB/C428  |                 |               |       |       |       |       |       |       |       |       |
| 5         | 1935            | 1287          | 3975  | 3327  |       |       |       |       |       |       |
| 6         | 2322            | 1544          | 3719  | 2940  |       |       |       |       |       |       |
| 7         | 2708            | 1802          | 3461  | 2555  | 5215  | 4309  |       |       |       |       |
| 8         | 3095            | 2060          | 3203  | 2168  | 4957  | 3922  | 7149  | 6114  |       |       |
| 9         | 3482            | 2316          | 2946  | 1781  | 4700  | 3535  | 6893  | 5727  | 8208  | 7043  |
| 10        | 3869            | 2574          |       |       | 4433  | 3148  | 6635  | 5340  | 7950  | 6656  |
| 11        | 4256            | 2831          |       |       | 4186  | 2761  | 6378  | 4953  | 7694  | 6269  |
| 12        | 4643            | 3089          |       |       |       |       | 6120  | 4566  | 7436  | 5882  |
| RPB/C653  |                 |               |       |       |       |       |       |       |       |       |
| 5         | 3125            | 2096          | 5924  | 4895  |       |       |       |       |       |       |
| 6         | 3750            | 2520          | 5499  | 4269  |       |       |       |       |       |       |
| 7         | 4380            | 2940          | 5079  | 3639  | 7751  | 6196  |       |       |       |       |
| 8         | 4995            | 3345          | 4674  | 3024  | 7346  | 5066  | 10688 | 9038  |       |       |
| 9         | 5625            | 3765          | 4254  | 2394  | 6926  | 4436  | 10268 | 8408  | 12272 | 10412 |
| 10        | 6255            | 4185          |       |       | 6506  | 3821  | 9849  | 7778  | 11852 | 9782  |
| 11        | 6870            | 4605          |       |       | 6086  | 3821  | 9428  | 7163  | 11432 | 9167  |
| 12        | 7500            | 5025          |       |       |       |       | 9008  | 6533  | 11012 | 8537  |
| RPB/C1053 |                 |               |       |       |       |       |       |       |       |       |
| 5         | 4395            | 2850          | 10073 | 8528  |       |       |       |       |       |       |
| 6         | 5280            | 3405          | 9518  | 7643  |       |       |       |       |       |       |
| 7         | 6150            | 3975          | 8948  | 6773  | 13255 | 11080 |       |       |       |       |
| 8         | 7035            | 4545          | 8378  | 5888  | 12685 | 10195 | 18069 | 15579 |       |       |
| 9         | 7905            | 5115          | 7808  | 5018  | 12115 | 9325  | 17499 | 14709 | 20730 | 17940 |
| 10        | 8790            | 5685          |       |       | 11545 | 8440  | 16929 | 13824 | 20160 | 17055 |
| 11        | 9675            | 6255          |       |       | 10975 | 7555  | 16359 | 12939 | 19590 | 16170 |
| 12        | 10545           | 6825          |       |       |       |       | 15789 | 12069 | 19020 | 15300 |
| RPB/C1286 |                 |               |       |       |       |       |       |       |       |       |
| 5         | 5400            | 3900          | 11886 | 10386 |       |       |       |       |       |       |
| 6         | 6480            | 4695          | 11091 | 9306  |       |       |       |       |       |       |
| 7         | 7545            | 5475          | 10311 | 8241  | 15573 | 13503 |       |       |       |       |
| 8         | 8625            | 6255          | 9531  | 7161  | 14793 | 12423 | 21371 | 19001 |       |       |
| 9         | 9205            | 7035          | 8751  | 6081  | 14003 | 11343 | 20591 | 17921 | 24537 | 21867 |
| 10        | 10785           | 7815          |       |       | 13233 | 10263 | 19811 | 16841 | 23757 | 20787 |
| 11        | 11865           | 8595          |       |       | 12453 | 9183  | 19031 | 15761 | 22977 | 19707 |
| 12        | 12945           | 9375          |       |       |       |       | 18251 | 14681 | 22197 | 18627 |
| RPB/C1890 |                 |               |       |       |       |       |       |       |       |       |
| 5         | 7875            | 5835          | 17361 | 15321 |       |       |       |       |       |       |
| 6         | 9450            | 7005          | 16191 | 13746 |       |       |       |       |       |       |
| 7         | 11025           | 8160          | 15036 | 12171 | 22768 | 19903 |       |       |       |       |
| 8         | 12600           | 9330          | 13866 | 10596 | 21598 | 18328 | 31263 | 27993 |       |       |
| 9         | 14175           | 10500         | 12696 | 9021  | 20428 | 16753 | 30093 | 26418 | 35892 | 32217 |
| 10        | 15750           | 11670         |       |       | 19258 | 15178 | 28923 | 24843 | 34722 | 30642 |
| 11        | 17325           | 12825         |       |       | 18103 | 13603 | 27768 | 23268 | 33567 | 29067 |
| 12        | 18900           | 13995         |       |       |       |       | 26598 | 21693 | 32397 | 28992 |
| RPB/C2870 |                 |               |       |       |       |       |       |       |       |       |
| 5         | 11175           | 7950          | 27279 | 24054 |       |       |       |       |       |       |
| 6         | 13410           | 9540          | 25689 | 21819 |       |       |       |       |       |       |
| 7         | 15645           | 11130         | 24099 | 19584 | 35842 | 31327 |       |       |       |       |
| 8         | 17880           | 12720         | 22509 | 17349 | 34252 | 29092 | 48930 | 43770 |       |       |
| 9         | 20115           | 14310         | 20919 | 15114 | 32662 | 26857 | 47340 | 41535 | 56148 | 50343 |
| 10        | 22350           | 15900         |       |       | 31072 | 24622 | 45750 | 39300 | 54558 | 48108 |





# ELECTRIC ACTUATOR

SERIES NO.:  
EOM



| Series No. | Power<br>Watts | Torque<br>In.lbs | Speed<br>Sec/90° | Weight<br>lbs | Manual<br>Override | Mounting<br>flange<br>(ISO 5211)<br>Type |
|------------|----------------|------------------|------------------|---------------|--------------------|------------------------------------------|
| EOM-A      | 10 W           | 443              | 20               | 6.6           | N/A                | F07                                      |
| EOM-1      | 10 W           | 310              | 12               | 4.4           | Lever              | F03/F05/F07                              |
| EOM-2      | 40 W           | 797              | 15               | 19.8          | Hand-wheel         | F07                                      |
| EOM-3      | 40 W           | 1329             | 22               | 19.8          | Hand-wheel         | F07                                      |
| EOM-4      | 120 W          | 3543             | 22               | 38.6          | Hand-wheel         | F10                                      |
| EOM-5      | 120 W          | 4429             | 28               | 38.6          | Hand-wheel         | F10                                      |
| EOM-6      | 120 W          | 5757             | 35               | 38.6          | Hand-wheel         | F10                                      |
| EOM-7      | 180 W          | 8857             | 46               | 79.4          | Hand-wheel         | F14                                      |
| EOM-8      | 220 W          | 13286            | 46               | 79.4          | Hand-wheel         | F14                                      |
| EOM-9      | 180 W          | 17714            | 58               | 123.5         | Hand-wheel         | F16                                      |
| EOM-10     | 220 W          | 22143            | 58               | 123.5         | Hand-wheel         | F16                                      |
| EOM-11     | 250 W          | 26571            | 58               | 123.5         | Hand-wheel         | F16                                      |
| EOM-12     | 300 W          | 31000            | 58               | 123.5         | Hand-wheel         | F16                                      |

# ***OTHER PRODUCTS***



**Resilient Seated  
Butterfly Valves**



**High  
Performance  
Butterfly  
Valves**



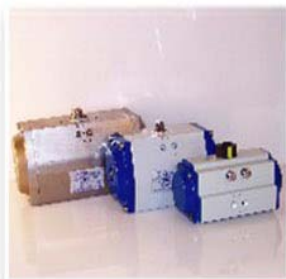
**Teflon  
Seated  
Butterfly  
Valves**



**Triple  
Eccentric  
Butterfly  
Valves**



**AWWA  
C -504  
Butterfly  
Valves**



**Rack &  
Pinion  
Actuators**



**Electric  
Rotary  
Actuators**



**Manual  
Operators**



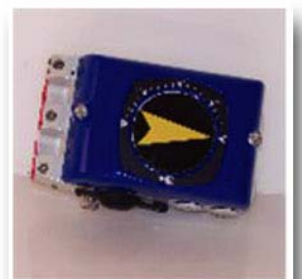
**Namur  
Mount Limit  
Switches**



**Namur  
Mount  
Solenoid**

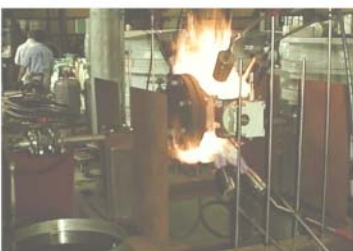


**Manual  
De-Clutchable  
Overrides**



**Positioners**





## Butterfly Valves & Controls Inc.

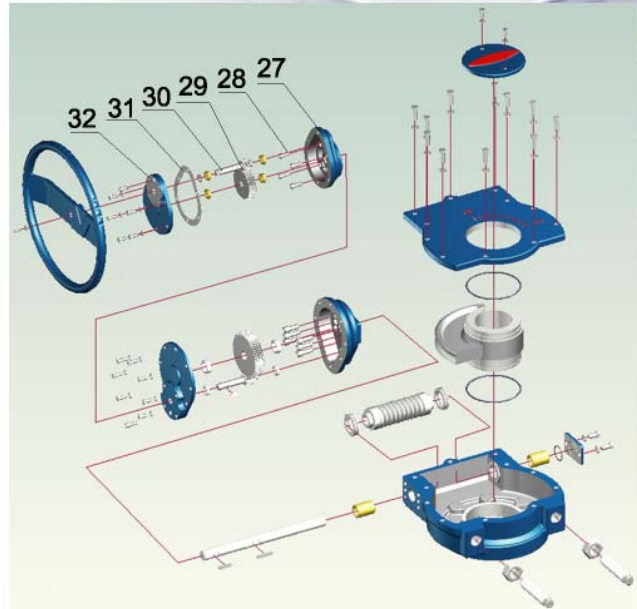
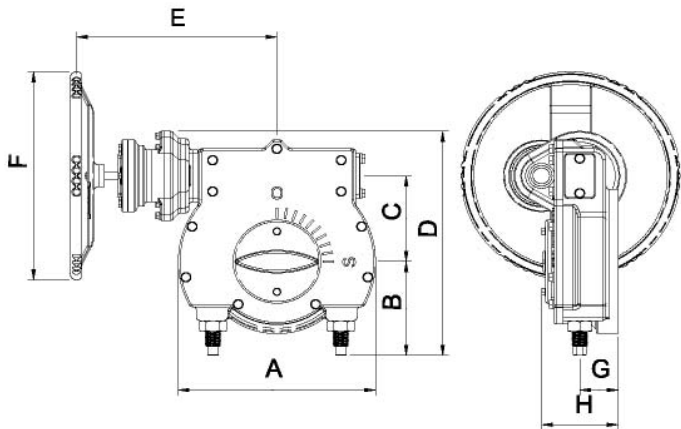
671 Industrial Blvd  
Grapevine, Texas 76051  
Phone: 817-421-5343  
Facs: 817-416-6270  
E-mail: [sales@bvcusa.com](mailto:sales@bvcusa.com)  
<http://www.bvcusa.com>





# GEAR OPERATOR

**SERIES NO.:**  
A6+S6+S4  
A7+S7.8+S4  
A5+S5+S3



| No. | Name           | Materials |
|-----|----------------|-----------|
| 27  | SPUR GEAR BODY | CAST IRON |
| 28  | BOLT           | STEEL     |
| 29  | SPUR GEAR      | STEEL     |

| No. | Name            | Materials |
|-----|-----------------|-----------|
| 30  | SPUR GEAR SHAFT | STEEL     |
| 31  | PACKING         | PAPER     |
| 32  | SPUR GEAR COVER | CAST IRON |

| Series No. | Allowable Valve Stem Diameter |      |      | Dimensions |       |       |       |       |       |      |       | Mounting flange (ISO 5211) |       | Gear ratio |
|------------|-------------------------------|------|------|------------|-------|-------|-------|-------|-------|------|-------|----------------------------|-------|------------|
|            | Depth                         | Min  | Max  | A          | B     | C     | D     | E     | F     | G    | H     | Type                       | PCD   |            |
| A5+S5+S3   | 7.09                          | 3.15 | 5.51 | 21.26      | 10.63 | 9.72  | 25.43 | 22.20 | 23.62 | 4.13 | 5.12  | FO7                        | 14.02 | 1:840      |
| A6+S6+S4   | 9.25                          | 5.51 | 7.09 | 27.80      | 11.42 | 12.99 | 30.98 | 28.98 | 23.62 | 4.92 | 6.34  | F10                        | 15.98 | 1:1764     |
| A7+S7.8+S4 | 11.02                         | 6.89 | 7.87 | 32.76      | 13.23 | 13.23 | 38.86 | 33.82 | 23.62 | 5.94 | 12.36 | F48                        | 19.02 | 1:2808     |