

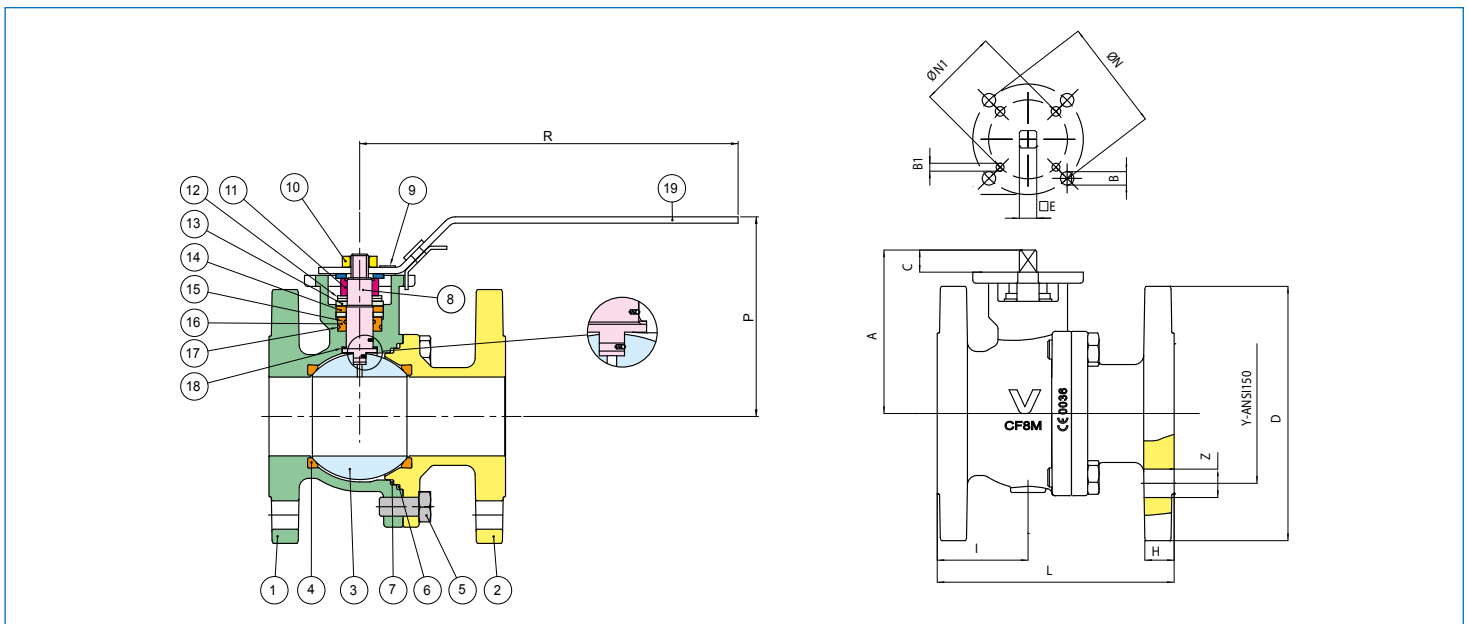


SERIES 766001 CARBON STEEL - DIRECT MOUNT

Carbon steel, ANSI class 150 flanged ends ball valve.

- Direct mount ISO 5211.
- Locking handle as standard.
- Full port, sizes 1" to 4".
- Temperature range -4° F to 366° F.
- Blow out proof stem, adjustable stem packing.
- P.T.F.E. seats, packing and thrust washer.
- FIRE SAFE certified to API 607 6th edition.
- 100% tested.
- ANSI B16.5, B16.10, B16.34 design.
- Antistatic device.

COMPLIES WITH NACE MR 0175/ISO 15156 AND NACE MR 010.3

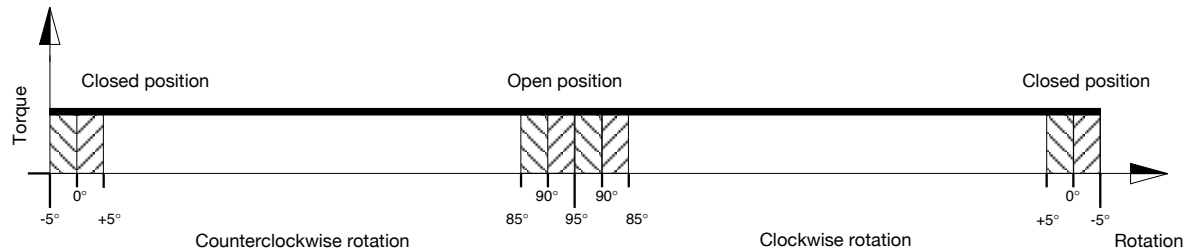
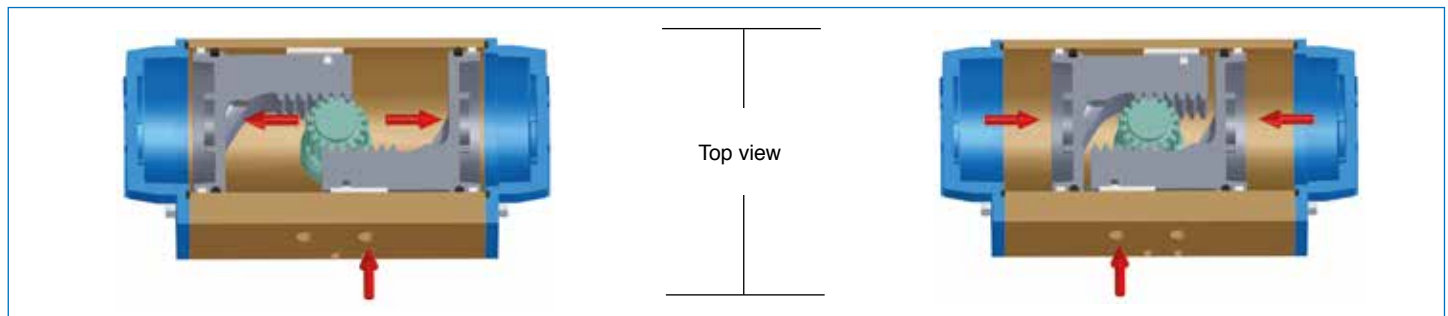


| N Pos | PART NAME | MATERIAL | N PCS |
|-------|----------------|-----------------------|-------|
| 1 | BODY | A216-WCB | 1 |
| 2 | END CONNECTION | A216-WCB | 1 |
| 3 | BALL | A216-316 A351-CF8M | 1 |
| 4 | BALL SEAT | P.T.F.E. | 2 |
| 5 | SCREW | CARBON STEEL | 4-8 |
| 6 | BODY SEAL | GRAPHOIL | 1 |
| 7 | BODY SEAL | P.T.F.E. | 1 |
| 8 | STEM | A276-304 | 1 |
| 9 | SCREW | CARBON STEEL | 1 |
| 10 | NUT | CARBON STEEL | 1 |
| 11 | NUT | CARBON STEEL | 1 |
| 12 | SPRING WASHER | CARBON STEEL | 2 |
| 13 | BUSH | A276-316 | 2 |
| 14 | STEM SEAL | GRAPHOIL | 1 |
| 15 | O-RING | FKM (VITON®) | 1 |
| 16 | STEM SEAL | P.T.F.E. | 1 |
| 17 | O-RING | FKM (VITON®) | 1 |
| 18 | THRUST WASHER | P.T.F.E. | 1 |
| 19 | HANDLE | STAINLESS STEEL | 1 |

| SIZE | D | Y | Z | H | I | L | P | R | A | C | E | ØN | B | ØN1 | B1 | Cv | Lbs |
|--------|------|------|----------|------|------|------|------|-------|------|------|------|----------|------|----------|-----|----------|-------|
| 1/2" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3/4" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1" | 4.33 | 3.13 | 4xØ0.63 | 0.57 | 2.13 | 5.00 | 3.66 | 6.30 | 2.72 | 0.43 | 0.35 | 1.97-F05 | 0.28 | - | - | 50.00 | 8.38 |
| 1 1/2" | 5.12 | 3.88 | 4xØ0.63 | 0.69 | 2.99 | 6.50 | 4.65 | 9.45 | 3.70 | 0.55 | 0.43 | 2.76-F07 | 0.33 | 1.97-F05 | M6 | 267.44 | 15.43 |
| 2" | 5.91 | 4.04 | 4xØ0.75 | 0.77 | 3.33 | 7.01 | 5.00 | 9.45 | 4.06 | 0.53 | 0.43 | 2.76-F07 | 0.33 | 1.97-F05 | M6 | 308.14 | 21.16 |
| 3" | 7.48 | 6.00 | 4xØ 0.75 | 0.94 | 3.66 | 7.99 | 6.38 | 12.60 | 5.41 | 0.69 | 0.55 | 4.02-F10 | 0.43 | 2.76-F07 | M10 | 1.015.12 | 39.45 |
| 4" | 9.06 | 7.50 | 8xØ0.75 | 0.94 | 3.92 | 9.02 | 6.97 | 14.96 | 6.04 | 0.75 | 0.67 | 4.02-F10 | 0.43 | 2.76-F07 | M10 | 1.616.28 | 53.56 |



DOUBLE ACTING ACTUATOR



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 the 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 32 | 34 | 43 | 55 | 64 | 71 | 82 | 87 | 101 |
| DA 52 * | 88 | 112 | 133 | 158 | 178 | 201 | 227 | 263 |
| DA 63 * | 152 | 193 | 238 | 282 | 320 | 361 | 405 | 469 |
| DA 75 * | 283 | 356 | 435 | 513 | 586 | 659 | 736 | 851 |
| DA 85 * | 406 | 514 | 628 | 744 | 853 | 960 | 1072 | 1237 |
| DA 100 * | 645 | 814 | 989 | 1163 | 1333 | 1505 | 1681 | 1939 |
| DA 115 | 1065 | 1344 | 1640 | 1932 | 2212 | 2488 | 2779 | 3211 |
| DA 125 | 1402 | 1771 | 2153 | 2539 | 2905 | 3274 | 3650 | 4220 |
| DA 140 | 2003 | 2504 | 3005 | 3506 | 4006 | 4509 | 5009 | 5764 |
| DA 160 | 2804 | 3501 | 4196 | 4899 | 5596 | 6292 | 6987 | 8045 |
| DA 180 | 3860 | 4825 | 5790 | 6746 | 7711 | 8661 | 9627 | 11081 |
| DA 200 | 5198 | 6494 | 7796 | 9089 | 10393 | 11670 | 12972 | 14924 |
| DA 230 | 8589 | 10738 | 12880 | 15031 | 17180 | 19289 | 21440 | 24671 |
| DA 270 | 12625 | 15777 | 18935 | 22093 | 25246 | 28361 | 31511 | 36269 |
| DA 330 | 22464 | 28083 | 33702 | 39321 | 44939 | 50476 | 56086 | 64555 |

* Valid also for stainless steel actuator