



# Electric Automation Ball Valves

## Split Body Design, Full Bore, ANSI Class 150 Flanged

**Fig No:EL-55 Full Bore**  
1/2" ~ 4" ( DN 15 ~ DN 100 )

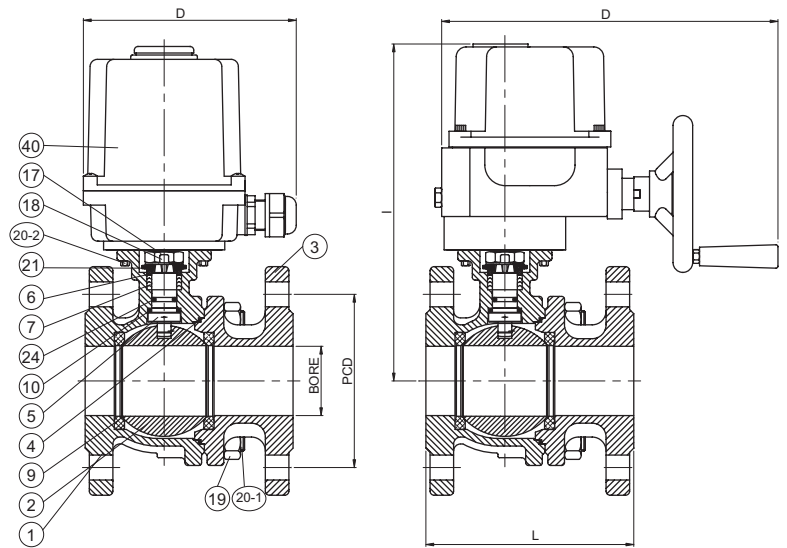


### Valve Specification :

**Design Specification According to ANSI B16.34 Class 150**  
 Material : Stainless Steel, Carbon Steel or Special Alloy upon request  
 Blow-out-proof stem design & Anti-static design  
 Stem packing to comply with **TA-Luft** requirements  
 Actuator mounting shall be in accordance with ISO 5211  
 Face to Face According to ANSI B16.10 Class 150  
 Flange dimension according to ANSI B16.5 Class 150  
 Working Pressure according to ANSI B16.34 Class 150  
 Temperature Range : -4 to 356 °F ( -20 to 180 °C )  
 Pressure Test According to API 598 :  
 Shell test by water : Working pressure x 1.5 time  
 Closure seat by Air : 80 ~ 100 Psi ( 5.6 ~ 7 bar )

### MATERIALS LIST

| NO.  | PART NAME         | MATERIAL          | Q'TY  |
|------|-------------------|-------------------|-------|
| 1    | BODY              | ASTM A351 Gr.CF8M | 1     |
| 2    | BALL              | ASTM A351 Gr.CF8M | 1     |
| 3    | END CAP           | ASTM A351 Gr.CF8M | 1     |
| 4    | BODY SEAL         | PTFE.             | 1     |
| 5    | STEM              | SS316             | 1     |
| 7    | STEM PACKING      | PTFE.             | 1 SET |
| 9    | SEAT              | PTFE. , RTFE.     | 2     |
| 10   | THRUST WASHER     | PTFE.             | 1     |
| 17   | STEM NUT          | SS304             | 1     |
| 18   | TAB WASHER        | SS304             | 1     |
| 19   | NUT               | SS304             | 4~12  |
| 20-1 | STUD              | SS304             | 4~12  |
| 20-2 | BOLT              | SS304             | 4     |
| 21   | BELLEVILLE WASHER | SS301             | 1 SET |
| 23   | STEM BUSH         | SS304             | 1     |
| 24   | O-RING            | VITON             | 1     |
| 39   | ELECTRIC ACTUATOR | NYLON             | 1     |



### DIMENSIONS

Unit:mm

| SIZE          | 1/2"    |         |        |        | 3/4"    |         |        |        | 1"      |         |        |        | 1-1/4"  |         |        |        | 1-1/2"  |         |        |        | 2"      |         |        |        | 2-1/2"  |         |        |        | 3"      |         |        |        | 4"    |       |       |       |
|---------------|---------|---------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|-------|-------|-------|-------|
| ELECTRIC FIG. | UMS     |         | UM-1   |        | UMS     |         | UM-1   |        | UM-1    |         |        |        | UM-2    |         | UM-1   |        | UM-2    |         |        |        | UM-3    |         |        |        | UM-3    |         |        |        | UM-4    |         |        |        |       |       |       |       |
| VOLTAGE       | 110 VAC | 220 VAC | 24 VAC | 24 DVC | 110 VAC | 220 VAC | 24 VAC | 24 DVC | 110 VAC | 220 VAC | 24 VAC | 24 DVC | 110 VAC | 220 VAC | 24 VAC | 24 DVC | 110 VAC | 220 VAC | 24 VAC | 24 DVC | 110 VAC | 220 VAC | 24 VAC | 24 DVC | 110 VAC | 220 VAC | 24 VAC | 24 DVC | 110 VAC | 220 VAC | 24 VAC | 24 DVC |       |       |       |       |
| BORE          | 15.0    |         |        |        | 20.0    |         |        |        | 25.0    |         |        |        | 32.0    |         |        |        | 38.0    |         |        |        | 50.0    |         |        |        | 65.0    |         |        |        | 80.0    |         |        |        | 100.0 |       |       |       |
| D             | 148.0   | 148.0   | 148.0  | 148.0  | 148.0   | 148.0   | 148.0  | 148.0  | 148.0   | 148.0   | 148.0  | 148.0  | 148.0   | 148.0   | 148.0  | 148.0  | 148.0   | 148.0   | 148.0  | 148.0  | 200.0   | 200.0   | 200.0  | 200.0  | 350.0   | 350.0   | 350.0  | 350.0  | 350.0   | 350.0   | 350.0  | 350.0  |       |       |       |       |
| I             | 198.0   | 198.0   | 198.0  | 198.0  | 200.5   | 200.5   | 200.5  | 200.5  | 206.5   | 206.5   | 206.5  | 206.5  | 219.0   | 219.0   | 219.0  | 219.0  | 272.0   | 272.0   | 231.0  | 231.0  | 279.6   | 279.6   | 279.6  | 279.6  | 277.8   | 277.8   | 277.8  | 277.8  | 369.3   | 369.3   | 369.3  | 369.3  | 384.3 | 384.3 | 384.3 | 384.3 |
| L             | 108.0   |         |        |        | 117.4   |         |        |        | 127.0   |         |        |        | 139.7   |         |        |        | 165.1   |         |        |        | 177.8   |         |        |        | 190.5   |         |        |        | 203.2   |         |        |        | 228.6 |       |       |       |
| PCD           | 60.5    |         |        |        | 69.9    |         |        |        | 79.2    |         |        |        | 88.9    |         |        |        | 98.6    |         |        |        | 120.7   |         |        |        | 139.7   |         |        |        | 152.4   |         |        |        | 190.5 |       |       |       |