

# Ball Valve

## Product Summary







## ■ Company Profile

FLOWX VALVE is a global manufacturer of highly engineered valves, actuators and accessories that helping our customers with their flow control requirements. Our competitive valve control solutions allow you to get the best possible performance from your valves.

With over 12 years of continued success and outstanding growth, FLOWX VALVE has become one of the premier butterfly valve, ball valve, pneumatic actuator manufacturers in China, and the largest automatic valve manufacturer in China.

FLOWX VALVE will ensure best possible valve performance and compliance with environmental regulations. FLOWX VALVE are widely used in the following sectors with its products and services:

- Water treatment industries
- Pharmaceutical and biotechnology industries
- Food and beverage industries
- Pulp and paper industries
- Chemical industry and environmental systems
- Processing industries
- Power generation
- Medical systems

For more information about the products features within this summary, or our products, please contact us, listed on the back cover of this document, or visit us at [www.flowxvalve.com](http://www.flowxvalve.com).



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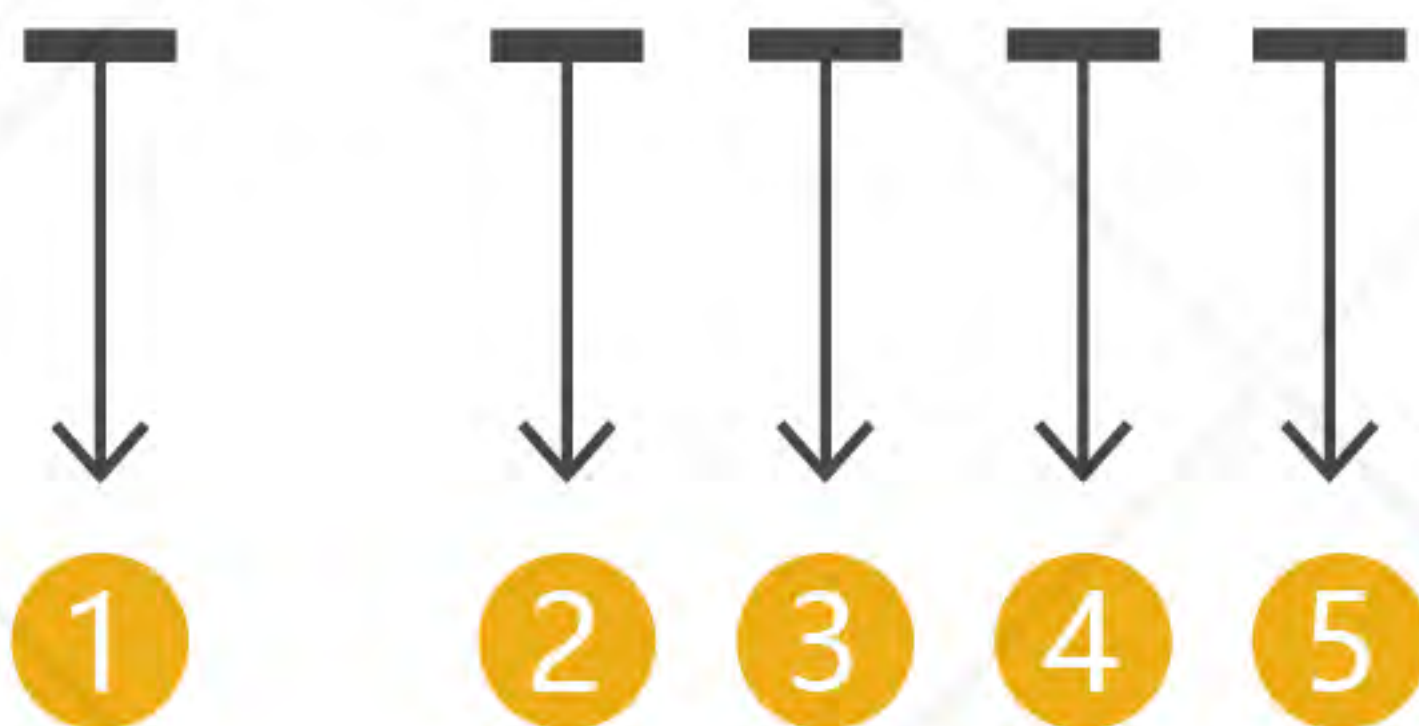
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■ Product Coding

FP200 0 - 3 3 E 3



1 Operation

- 0 ..... Pneumatic(DA)
- 0S ..... Pneumatic(SR)
- 1 ..... Lever
- 2 ..... Gear
- 3 ..... Electric

2 Connection

- 1 ..... Wafer
- 2 ..... Flange
- 3 ..... Thread
- 4 ..... Weld
- 5 ..... Clamp
- 6 ..... LT
- 7 ..... True Union

3 Seat Material

- 1 ..... EPDM
- 2 ..... NBR
- 3 ..... PTFE
- 4 ..... VITON
- 5 ..... FPM
- 6 ..... RPTFE
- 7 ..... SS304
- 8 ..... Alloy Steel
- 9 ..... Hard Alloy
- J ..... 1.4529

4 Ball Material

- E ..... SS304
- F ..... SS316
- G ..... UPVC
- H ..... CPVC
- I ..... WCB
- J ..... Ceramics
- K ..... PP

5 Body Material

- 1 ..... Ductile Iron
- 2 ..... WCB
- 3 ..... SS304
- 4 ..... Aluminium Alloy
- 5 ..... SS316
- 6 ..... UPVC
- 7 ..... PP
- 8 ..... CPVC



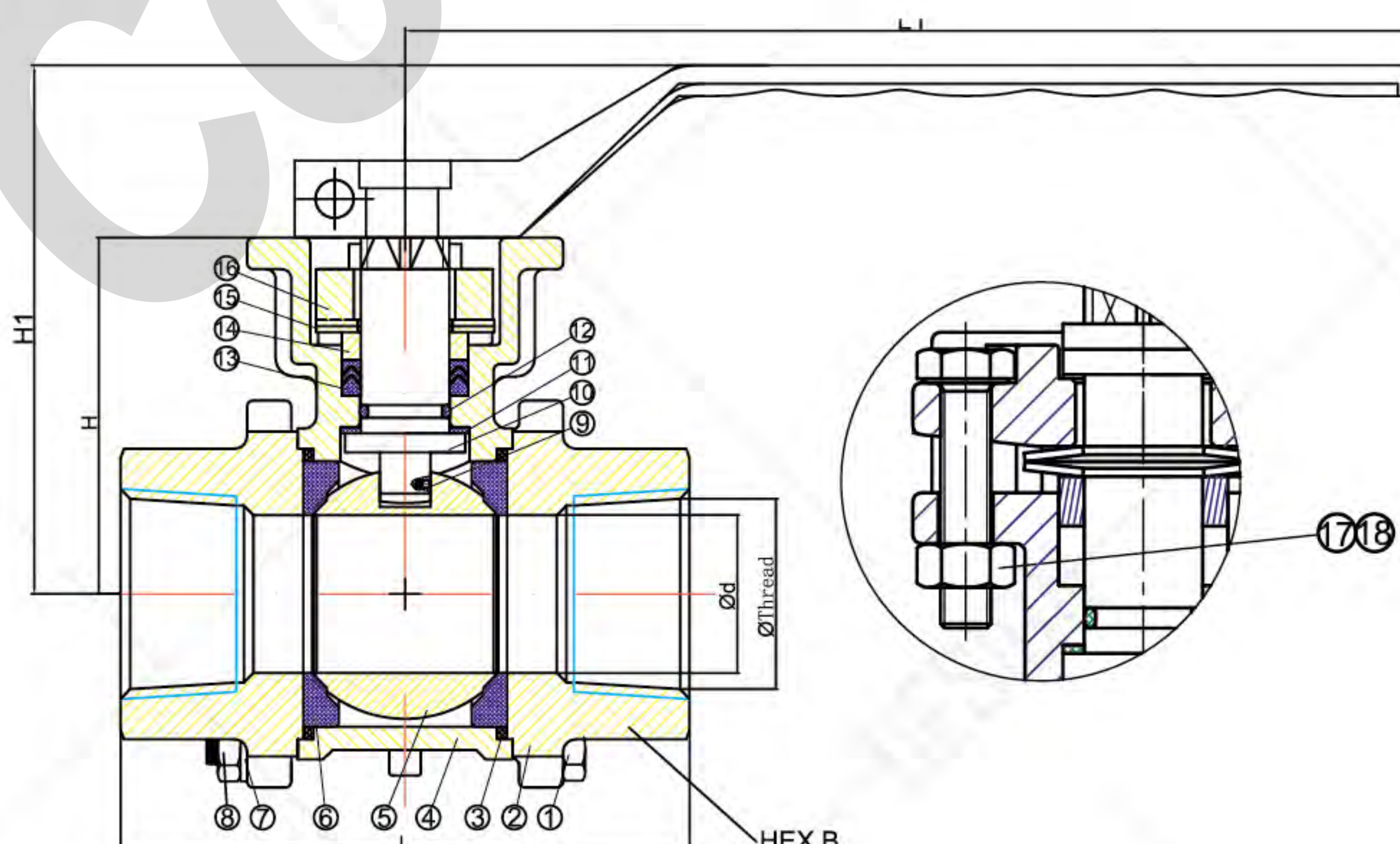
## 3-Piece Thread Ball Valves

### Features

- > Each valves comply with ISO 5211
- > Full port stainless steel 3-piece ball valve  
1/4" through 4" NPT
- > Antistatic device
- > Blowout-proof stem
- > Pressure rating 1000 wog
- > Temperature rating varies from with o-ring material
- > Threaded End Connections meet ASME B1.20.1  
NPT, DIN 2999/ 259, ISO 228/1, JIS B 0203
- > Inspection and testing to current API598, EN1226

### Material List

| NO. | PARTS NAME        | MATERIAL    | QTY |
|-----|-------------------|-------------|-----|
| 1   | BOLT              | A 193 B8    | 4   |
| 2   | BONNET            | CF8/CF8M    | 1   |
| 3   | BODY GASKET       | TFM1600     | 1   |
| 4   | BODY              | CF8/CF8M    | 1   |
| 5   | BALL              | SS304/SS316 | 1   |
| 6   | SEAT              | TFM1600     | 1   |
| 7   | SPRING WASHER     | SS          | 1   |
| 8   | NUT               | A 194 8     | 4   |
| 9   | ANTISTATIC DEVICE | SS          | 1   |
| 10  | STEM              | SS316       | 1   |
| 11  | THRUST WASHER     | RTFE        | 1   |
| 12  | O-RING            | VITON       | 1   |
| 13  | PACKING           | TFM1600     | 3   |
| 14  | PACKING RING      | SS          | 1   |
| 15  | DISC SPRING       | SS          | 2   |
| 16  | PACKING GLAND     | SS          | 1   |
| 17  | BOLT              | A 193 B8    | 2   |
| 18  | NUT               | A 193 8     | 2   |



### Dimentional Data

| Size |       | d   | L   | H    | HEX.B | L1  | H1    | THREAD                         |
|------|-------|-----|-----|------|-------|-----|-------|--------------------------------|
| DN   | In.   |     |     |      |       |     |       |                                |
| 15   | 1/2   | 15  | 89  | 57   | 28    | 165 | 85    | NPT<br>BSP<br>PT<br>DIN<br>etc |
| 20   | 3/4   | 20  | 89  | 57   | 34.5  | 165 | 85    |                                |
| 25   | 1     | 25  | 90  | 56.4 | 46    | 196 | 86.4  |                                |
| 32   | 1 1/4 | 32  | 110 | 70.3 | 52    | 196 | 100.3 |                                |
| 40   | 1 1/2 | 38  | 120 | 79   | 58.5  | 232 | 116.5 |                                |
| 50   | 2     | 50  | 140 | 86.7 | 71.5  | 232 | 124.2 |                                |
| 65   | 2 1/2 | 64  | 180 | 114  | 86.5  | 300 | 184   |                                |
| 80   | 3     | 72  | 205 | 121  | 101   | 300 | 191   |                                |
| 100  | 4     | 100 | 240 | 140  | 128   | 400 | 232   |                                |

#### Valve Operator

Lever operation

- Pneumatic or electric actuators available.
- Limit switches, positioners, solenoid valves and many other customer options available.
- Contact FLOWX for appropriate choice and sizing of valve actuators.

ALL VALVES ARE 100% ELECTRONICALLY TESTED AT 80 PSI IN BOTH THE OPEN AND CLOSED POSITIONS

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## 3-Piece Thread Ball Valves

### Features of Actuators

- Heavy duty Rack and pinion design
- Spring return or double acting
- Open and closed adjustment stops
- True NAMUR accessory and ISO mounting
- Visual indicator, Top Mount indicator
- High temperature and corrosion resistant models available
- Solenoids, limit switches, positioners and other accessories are available
- Fully adjustable limit switches allow for fine control of on-off positions
- All electric actuators are available for modulating (4-20mA control) or on-off service
- Motor has thermal overload protection
- Running Time: 9s/13s/15s/30s/50s/100s/150s
- Heavy-duty gear train motor with permanent lubrication
- ISO bottom mounting for direct mount actuation with true ISO valves on most models



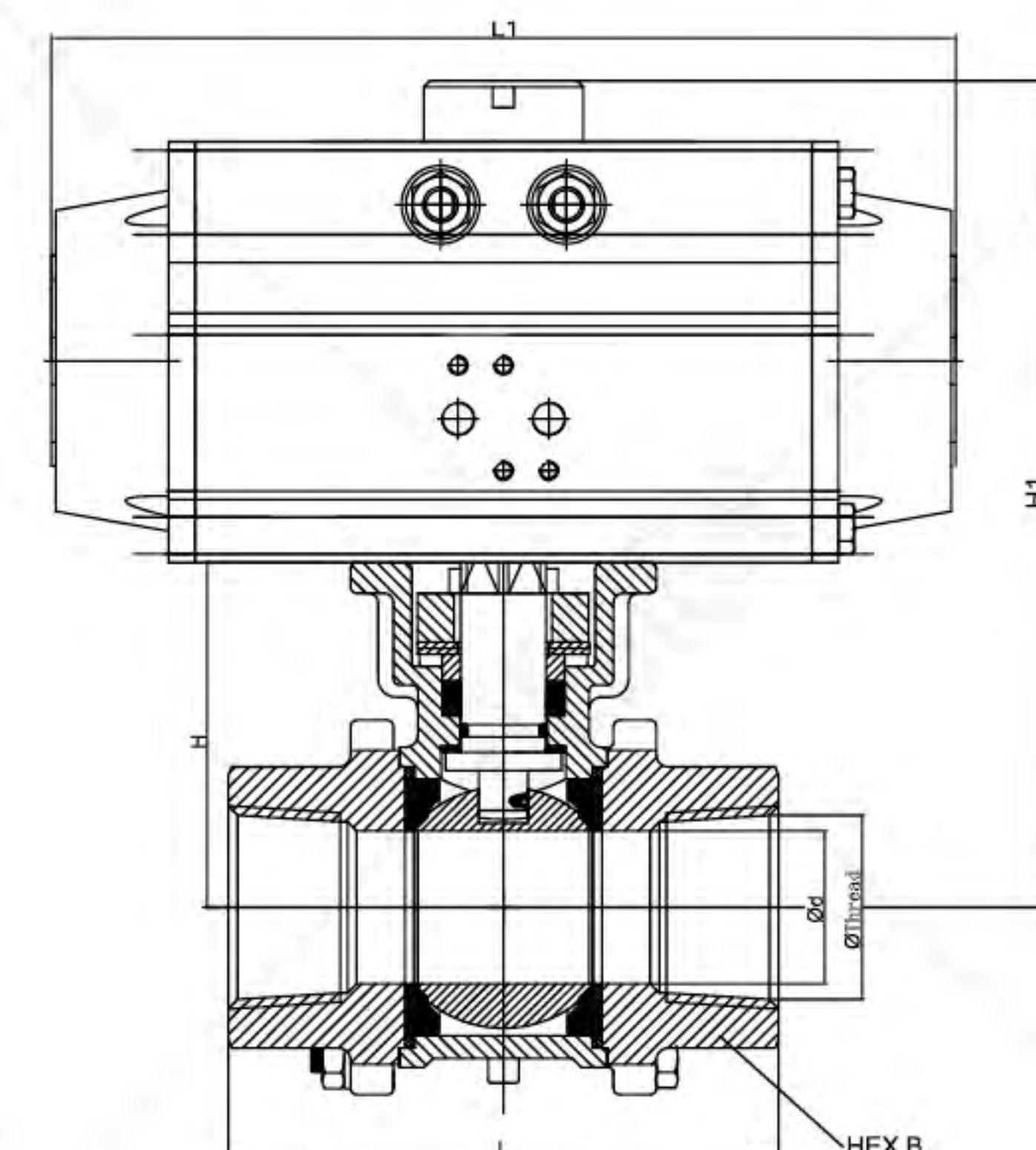
*Pneumatically Operated*



*Electrically Operated*

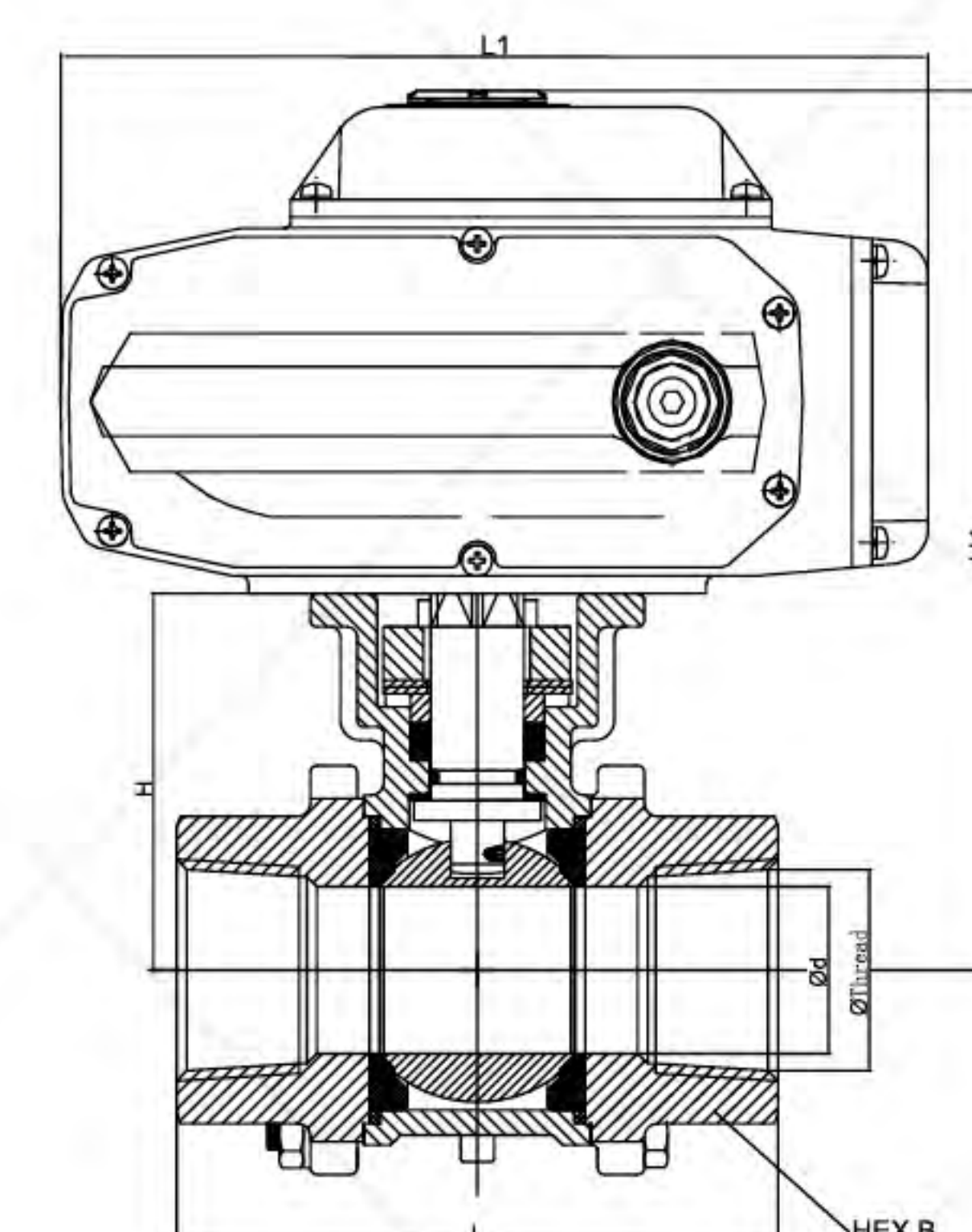
### Dimentional Data

| Size |       | d   | L   | H    | HEX.B | SR    |       | DA    |       | THREAD                         |
|------|-------|-----|-----|------|-------|-------|-------|-------|-------|--------------------------------|
| DN   | In.   |     |     |      |       | H1    | L1    | H1    | L1    |                                |
| 15   | 1/2   | 15  | 89  | 57   | 28    | 145.5 | 162   | 134.5 | 139.5 | NPT<br>BSP<br>PT<br>DIN<br>etc |
| 20   | 3/4   | 20  | 89  | 57   | 34.5  | 145.5 | 162   | 134.5 | 139.5 |                                |
| 25   | 1     | 25  | 90  | 56.4 | 46    | 161.4 | 207   | 144.9 | 162   |                                |
| 32   | 1 1/4 | 32  | 110 | 70.3 | 52    | 175.3 | 207   | 158.8 | 162   |                                |
| 40   | 1 1/2 | 38  | 120 | 79   | 58.5  | 195.5 | 237.5 | 184   | 207   |                                |
| 50   | 2     | 50  | 140 | 86.7 | 71.5  | 203.2 | 237.5 | 191.7 | 207   |                                |
| 65   | 2 1/2 | 64  | 185 | 114  | 86.5  | 240.5 | 271.5 | 230.5 | 237.5 |                                |
| 80   | 3     | 72  | 205 | 121  | 101   | 280.5 | 328   | 250.5 | 271.5 |                                |
| 100  | 4     | 100 | 240 | 140  | 128   | 311.5 | 366   | 299.5 | 328   |                                |



### Dimentional Data

| Size |       | d   | L   | H    | HEX.B | L1    | H1    | THREAD                         |
|------|-------|-----|-----|------|-------|-------|-------|--------------------------------|
| DN   | In.   |     |     |      |       |       |       |                                |
| 15   | 1/2   | 15  | 89  | 57   | 28    | 165   | 194.5 | NPT<br>BSP<br>PT<br>DIN<br>etc |
| 20   | 3/4   | 20  | 89  | 57   | 34.5  | 165   | 194.5 |                                |
| 25   | 1     | 25  | 90  | 56.4 | 46    | 165   | 193.5 |                                |
| 32   | 1 1/4 | 32  | 110 | 70.3 | 52    | 165   | 207.8 |                                |
| 40   | 1 1/2 | 38  | 120 | 79   | 58.5  | 165   | 216.5 |                                |
| 50   | 2     | 50  | 140 | 86.7 | 71.5  | 211.5 | 255.2 |                                |
| 65   | 2 1/2 | 64  | 185 | 114  | 86.5  | 259   | 317   |                                |
| 80   | 3     | 72  | 205 | 121  | 101   | 259   | 324   |                                |
| 100  | 4     | 100 | 240 | 140  | 128   | 259   | 343   |                                |



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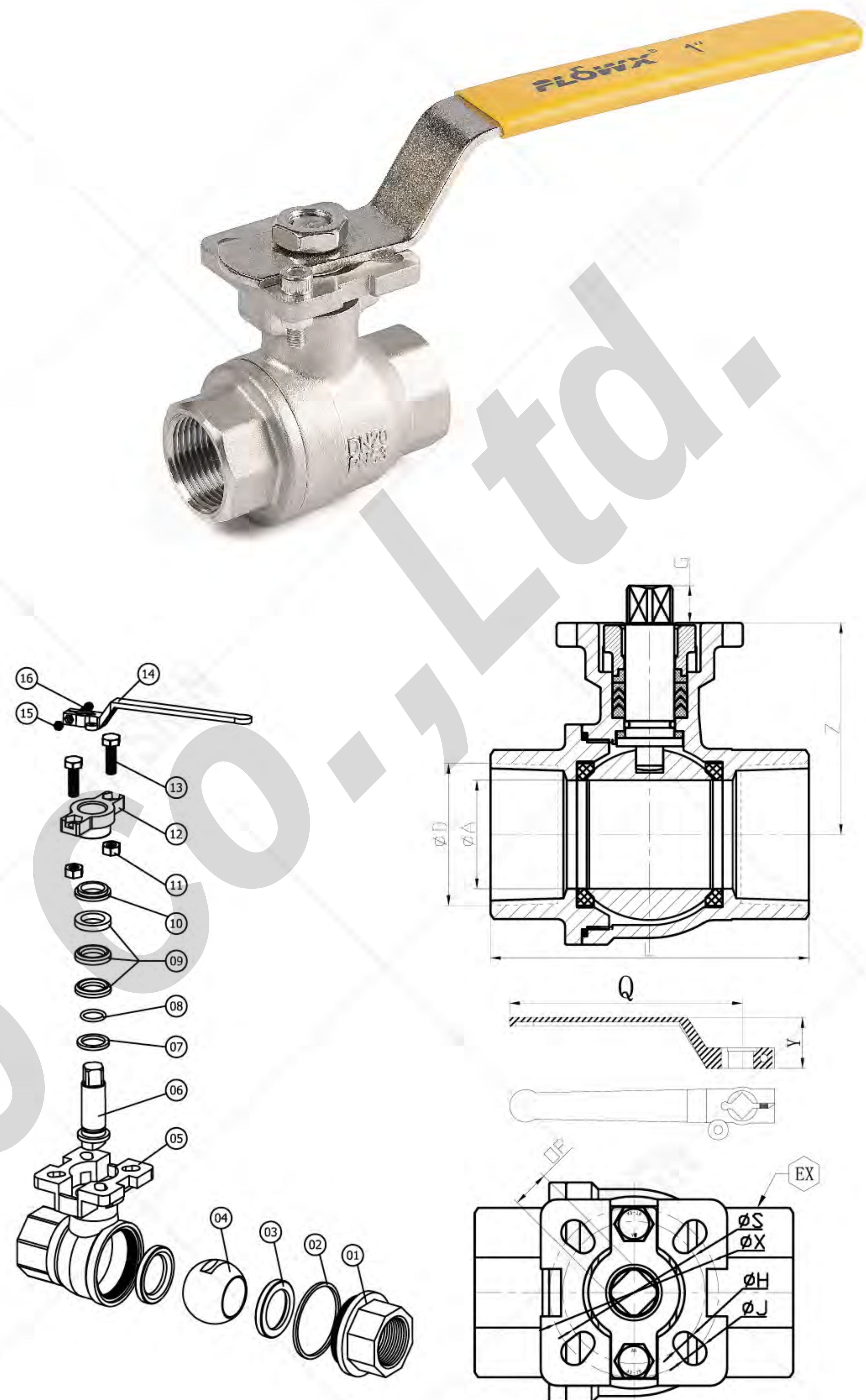
## 2-Piece Thread Ball Valves

### Features

- > Design at an economical price
- > Each valves comply with ISO 5211
- > Full port stainless steel 2-piece ball valve
- > 3/8" through 2" NPT
- > Antistatic device
- > Blowout-proof stem
- > Pressure rating 1000 wog
- > Temperature rating varies from with o-ring material
- > Threaded End Connections meet NPT, BSPT,DIN
- > Inspection and testing to current API598, EN1226

### Material List

| NO. | PARTS NAME     | MATERIAL |     |       |
|-----|----------------|----------|-----|-------|
| 1   | GLAND          | WCB      | CF8 | CF8M  |
| 2   | SEAL           | TFM1600  |     |       |
| 3   | SEAT           | TFM1600  |     |       |
| 4   | BALL           | SS304    |     | SS316 |
| 5   | BODY           | WCB      | CF8 | CF8M  |
| 6   | STEM           | SS304    |     |       |
| 7   | GASKET         | RPTFE    |     |       |
| 8   | O-RING         | VITON    |     |       |
| 9   | V-TYPE PACKING | TFM1600  |     |       |
| 10  | SHAFT SLEEVE   | RPTFE    |     |       |
| 11  | NUT            | 45#      |     | CF8   |
| 12  | PCKING GLAND   | WCB      |     | A2-70 |
| 13  | BLOT           | 45#      |     | CF8   |
| 14  | HANDLE         | WCB      |     | A2-70 |
| 15  | NUT            | A2-70    |     |       |
| 16  | BLOT           | A2-70    |     |       |



### Dimentional Data

| Size |       | ΦD  | ΦA | L   | Z    | G  | OP | EX | ΦS | ΦX | ΦH | ΦJ | Q   | Y  |
|------|-------|-----|----|-----|------|----|----|----|----|----|----|----|-----|----|
| DN   | In.   |     |    |     |      |    |    |    |    |    |    |    |     |    |
| 10   | 3/8   | NPT | 13 | 69  | 44.5 | 9  | 9  | 27 | 50 | 36 | 6  | 7  | 165 | 28 |
| 15   | 1/2   |     | 15 | 69  | 44.5 | 9  | 9  | 27 | 50 | 36 | 6  | 7  |     |    |
| 20   | 3/4   |     | 20 | 71  | 46   | 9  | 9  | 32 | 50 | 36 | 6  | 7  |     |    |
| 25   | 1     |     | 25 | 86  | 58   | 11 | 11 | 41 | 50 | 42 | 6  | 7  | 197 | 30 |
| 32   | 1 1/4 |     | 32 | 94  | 62.5 | 11 | 11 | 50 | 50 | 42 | 6  | 7  |     |    |
| 40   | 1 1/4 |     | 38 | 105 | 72.5 | 14 | 14 | 56 | 70 | 50 | 7  | 9  | 232 | 37 |
| 50   | 2     |     | 50 | 127 | 80.5 | 14 | 14 | 70 | 70 | 50 | 7  | 9  |     |    |

### Valve Operator

Lever operation

- Pneumatic or electric actuators available.
- Limit switches, positioners, solenoid valves and many other customer options available.
- Contact FLOWX for appropriate choice and sizing of valve actuators.

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## 2-Piece Thread Ball Valves

### Features of Actuators

- > Heavy duty Rack and pinion design
- > Spring return or double acting
- > Open and closed adjustment stops
- > True NAMUR accessory and ISO mounting
- > Visual indicator, Top Mount indicator
- > High temperature and corrosion resistant models available
- > Solenoids, limit switches, positioners and other accessories are available
- > Fully adjustable limit switches allow for fine control of on-off positions
- > All electric actuators are available for modulating (4-20mA control) or on-off service
- > Motor has thermal overload protection
- > Running Time: 9s/13s/15s/30s/50s/100s/150s
- > Heavy-duty gear train motor with permanent lubrication
- > ISO bottom mounting for direct mount actuation with true ISO valves on most models



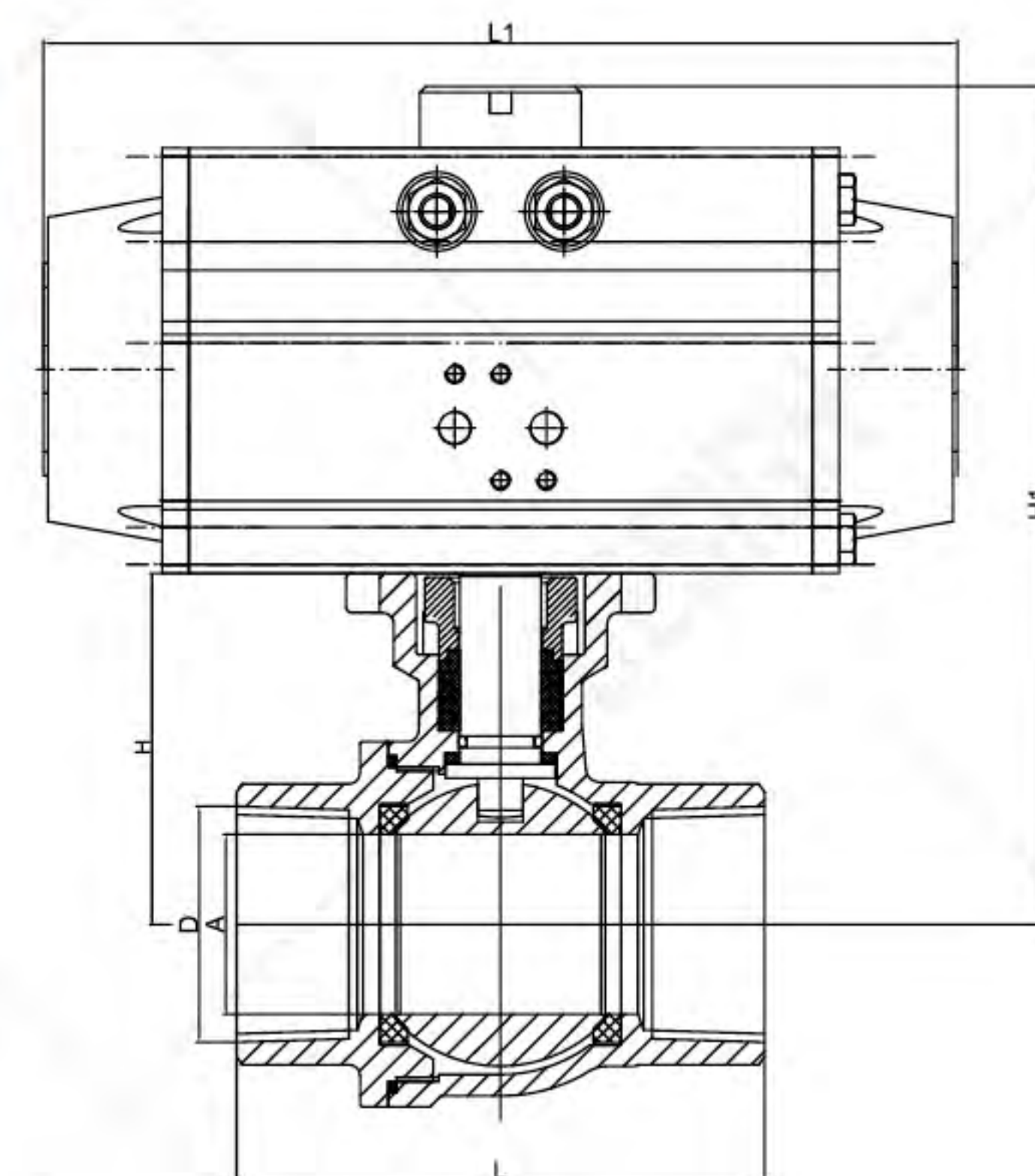
*Pneumatically Operated*



*Electrically Operated*

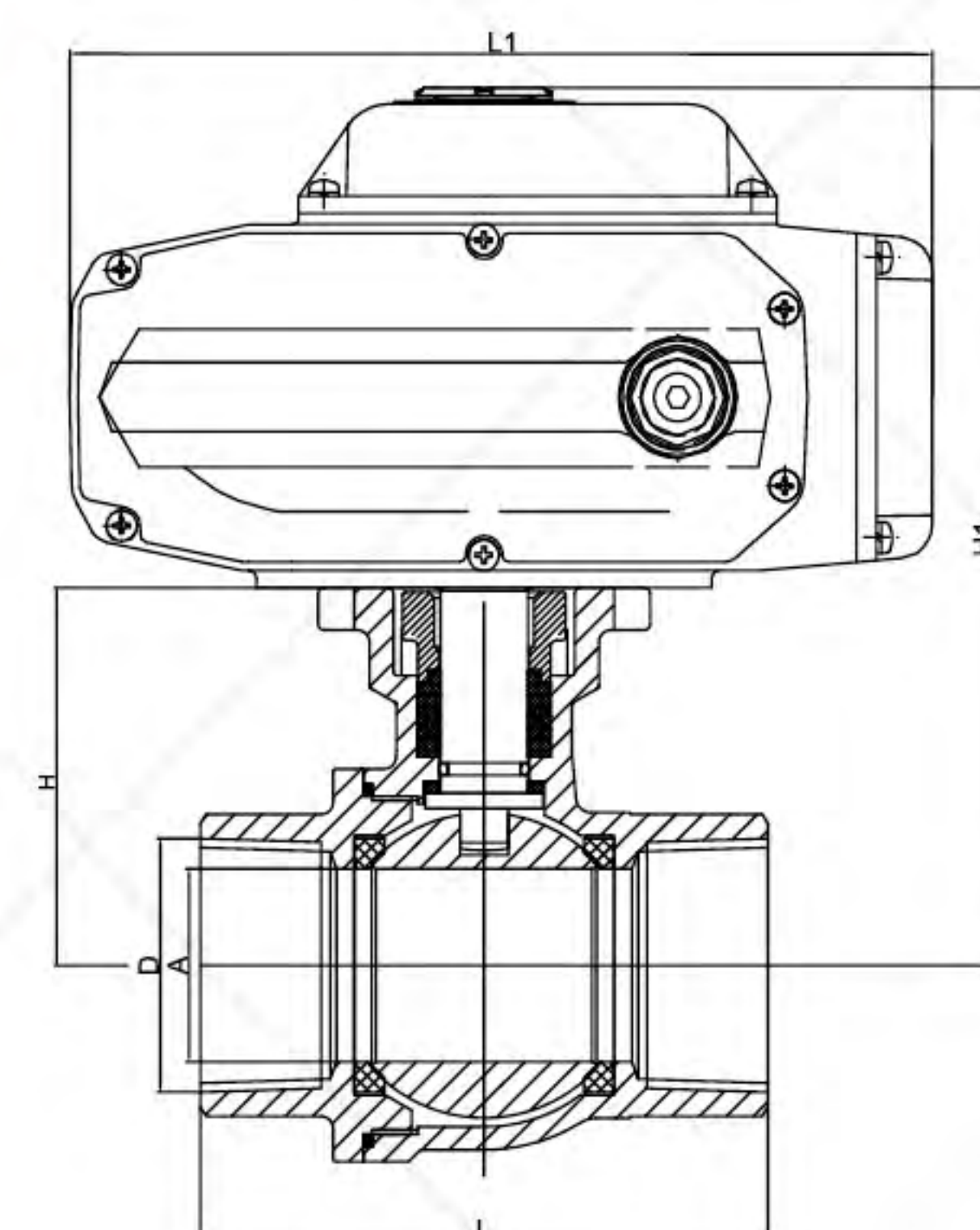
### Dimentional Data

| Size |       | A  | L   | H    | SR    |       | DA    |       | THREAD            |
|------|-------|----|-----|------|-------|-------|-------|-------|-------------------|
| DN   | In.   |    |     |      | H1    | L1    | H1    | L1    |                   |
| 10   | 3/8   | 13 | 69  | 44.5 | 145   | 162   | 134   | 139.5 | NPT<br>BSP<br>DIN |
| 15   | 1/2   | 15 | 69  | 44.5 | 145   | 162   | 134   | 139.5 |                   |
| 20   | 3/4   | 20 | 71  | 46   | 146.5 | 162   | 135.5 | 139.5 |                   |
| 25   | 1     | 25 | 86  | 58   | 175   | 207   | 158.9 | 162   |                   |
| 32   | 1 1/4 | 32 | 94  | 62.5 | 179.3 | 207   | 163   | 162   |                   |
| 40   | 1 1/2 | 38 | 105 | 72.5 | 201.5 | 237.5 | 189.5 | 207   |                   |
| 50   | 2     | 50 | 127 | 80.5 | 209   | 237.5 | 197.7 | 207   |                   |



### Dimentional Data

| Size |       | d  | L   | H    | L1    | H1    | THREAD            |
|------|-------|----|-----|------|-------|-------|-------------------|
| DN   | In.   |    |     |      |       |       |                   |
| 10   | 3/8   | 13 | 69  | 44.5 | 165   | 182   | NPT<br>BSP<br>DIN |
| 15   | 1/2   | 15 | 69  | 44.5 | 165   | 182   |                   |
| 20   | 3/4   | 20 | 71  | 46   | 165   | 183.5 |                   |
| 25   | 1     | 25 | 86  | 58   | 165   | 195.9 |                   |
| 32   | 1 1/4 | 32 | 94  | 62.5 | 165   | 200   |                   |
| 40   | 1 1/2 | 38 | 105 | 72.5 | 165   | 210   |                   |
| 50   | 2     | 50 | 127 | 80.5 | 211.5 | 249   |                   |



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## ANSI Flange Ball Valves

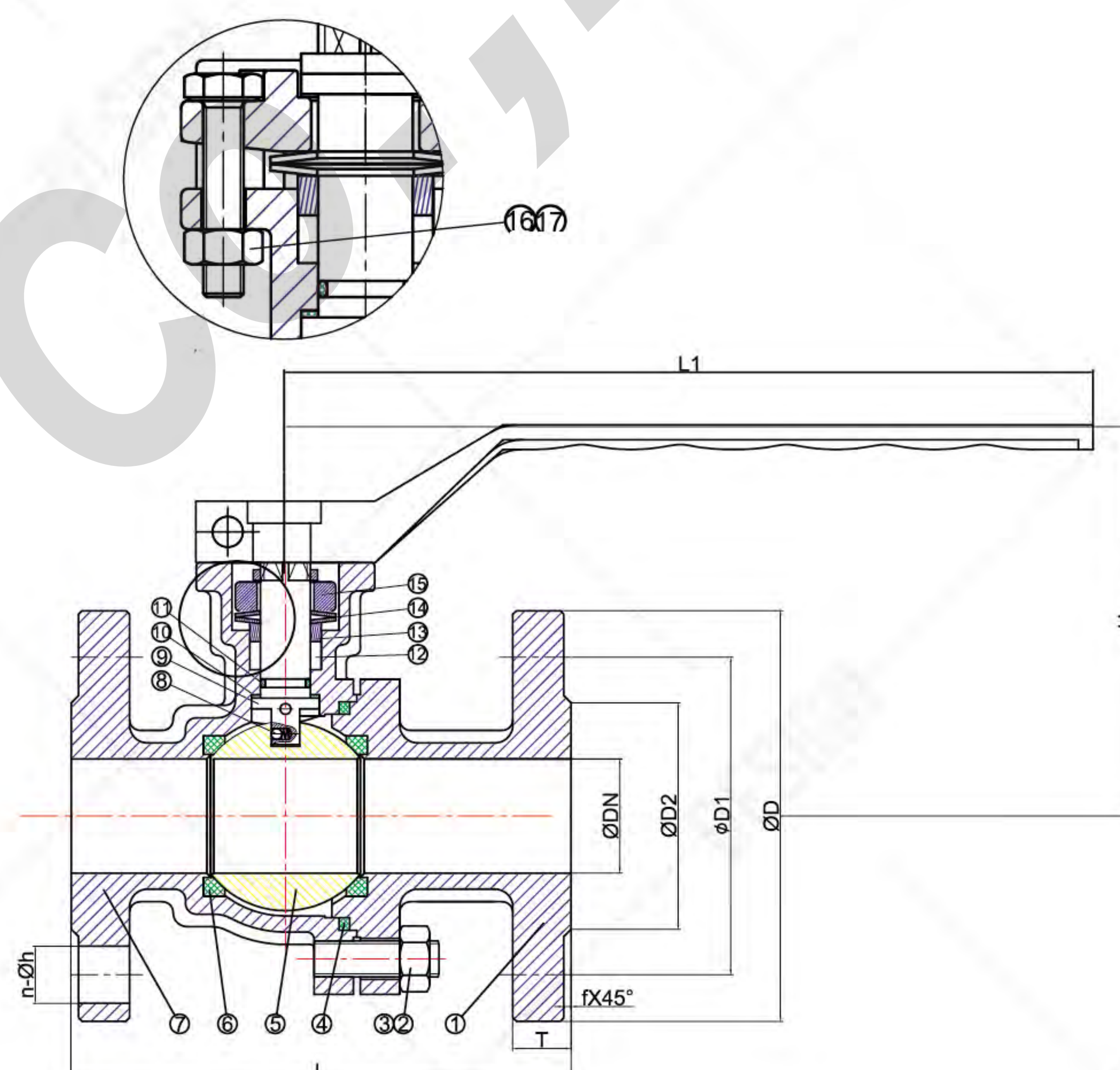
### Features

- > Full port stainless or carbon steel flanged ball valve
- > 1/2" through 8" with 150# ANSI flanges
- > Antistatic device
- > Blowout-proof stem
- > Pressure rating 150LB
- > Temperature rating varies from with o-ring material
- > API 607 fire safe tested and certified
- > Belleville washers and adjustable packing for high cycle applications
- > Inspection and testing to current API598, API 6D



### Material List

| NO. | PARTS NAME        | MATERIAL        | QTY |
|-----|-------------------|-----------------|-----|
| 1   | BONNET            | DI/WCB/CF8/CF8M | 1   |
| 2   | DOUBLE END STUD   | A 193 B8        |     |
| 3   | NUT               | A 194 8         |     |
| 4   | BODY GASKET       | PTFE            | 1   |
| 5   | BALL              | SS304/SS316     | 1   |
| 6   | SEAT              | TFM1600         | 1   |
| 7   | BODY              | DI/WCB/CF8/CF8M | 1   |
| 8   | ANTISTATIC DEVICE | SS              | 1   |
| 9   | STEM              | SS304/SS316     | 1   |
| 10  | THRUST WASHER     | RTFE            | 1   |
| 11  | O-RING            | VITON           | 1   |
| 12  | PACKING           | TFM1600         | 3   |
| 13  | PACKING GLAND     | SS              | 1   |
| 14  | DISC SPRING       | SS              | 2   |
| 15  | PACKING GLAND     | WCB/SS          | 1   |
| 16  | SCREW             | A 193 B8        | 2   |
| 17  | NUT               | A 194 8         | 2   |



### Dimentional Data

| Size |       | D   | D1    | D2    | L   | n-Φh  | T    | f | H     | L1  | WT (kg) |
|------|-------|-----|-------|-------|-----|-------|------|---|-------|-----|---------|
| DN   | In.   |     |       |       |     |       |      |   |       |     |         |
| 15   | 1/2   | 90  | 60.3  | 34.9  | 108 | 4-Φ16 | 11.6 | 2 | 77    | 165 | 2.0     |
| 20   | 3/4   | 100 | 69.9  | 42.9  | 117 | 4-Φ16 | 13.2 | 2 | 85    | 165 | 2.4     |
| 25   | 1     | 110 | 79.4  | 50.8  | 127 | 4-Φ16 | 14.7 | 2 | 88.5  | 196 | 3.3     |
| 32   | 1 1/4 | 115 | 88.9  | 63.5  | 140 | 4-Φ16 | 16.3 | 2 | 101   | 196 | 4.2     |
| 40   | 1 1/2 | 125 | 98.4  | 73    | 165 | 4-Φ16 | 17.9 | 2 | 115.5 | 232 | 6.2     |
| 50   | 2     | 150 | 120.7 | 92.1  | 178 | 4-Φ19 | 19.5 | 2 | 122.5 | 232 | 8.8     |
| 65   | 2 1/2 | 180 | 139.7 | 104.8 | 190 | 4-Φ19 | 23.3 | 2 | 184   | 300 | 13.9    |
| 80   | 3     | 190 | 152.4 | 127   | 203 | 4-Φ19 | 24.3 | 2 | 192   | 300 | 17.6    |
| 100  | 4     | 230 | 190.5 | 157.2 | 229 | 8-Φ19 | 24.3 | 2 | 227   | 400 | 23.9    |

### Valve Operator

Lever operation

- Pneumatic or electric actuators available.
- Limit switches, positioners, solenoid valves and many other customer options available.
- Contact FLOWX for appropriate choice and sizing of valve actuators.

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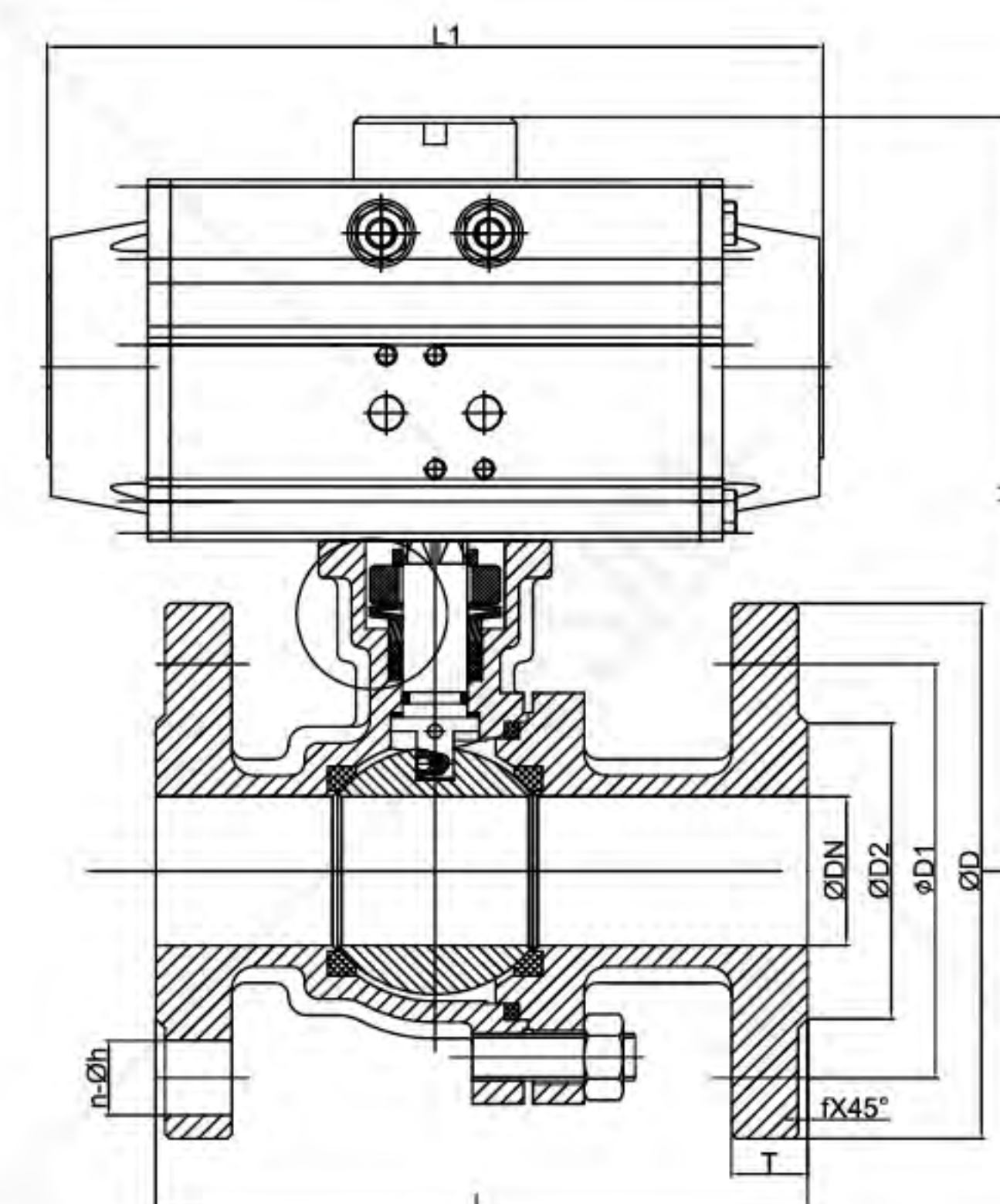
### Features of Actuators

- > Heavy duty Rack and pinion design
- > Spring return or double acting
- > Open and closed adjustment stops
- > True NAMUR accessory and ISO mounting
- > Visual indicator, Top Mount indicator
- > High temperature and corrosion resistant models available
- > Solenoids, limit switches, positioners and other accessories are available
- > Fully adjustable limit switches allow for fine control of on-off positions
- > All electric actuators are available for modulating (4-20mA control) or on-off service
- > Motor has thermal overload protection
- > Running Time: 9s/13s/15s/30s/50s/100s/150s
- > Heavy-duty gear train motor with permanent lubrication
- > ISO bottom mounting for direct mount actuation with true ISO valves on most models



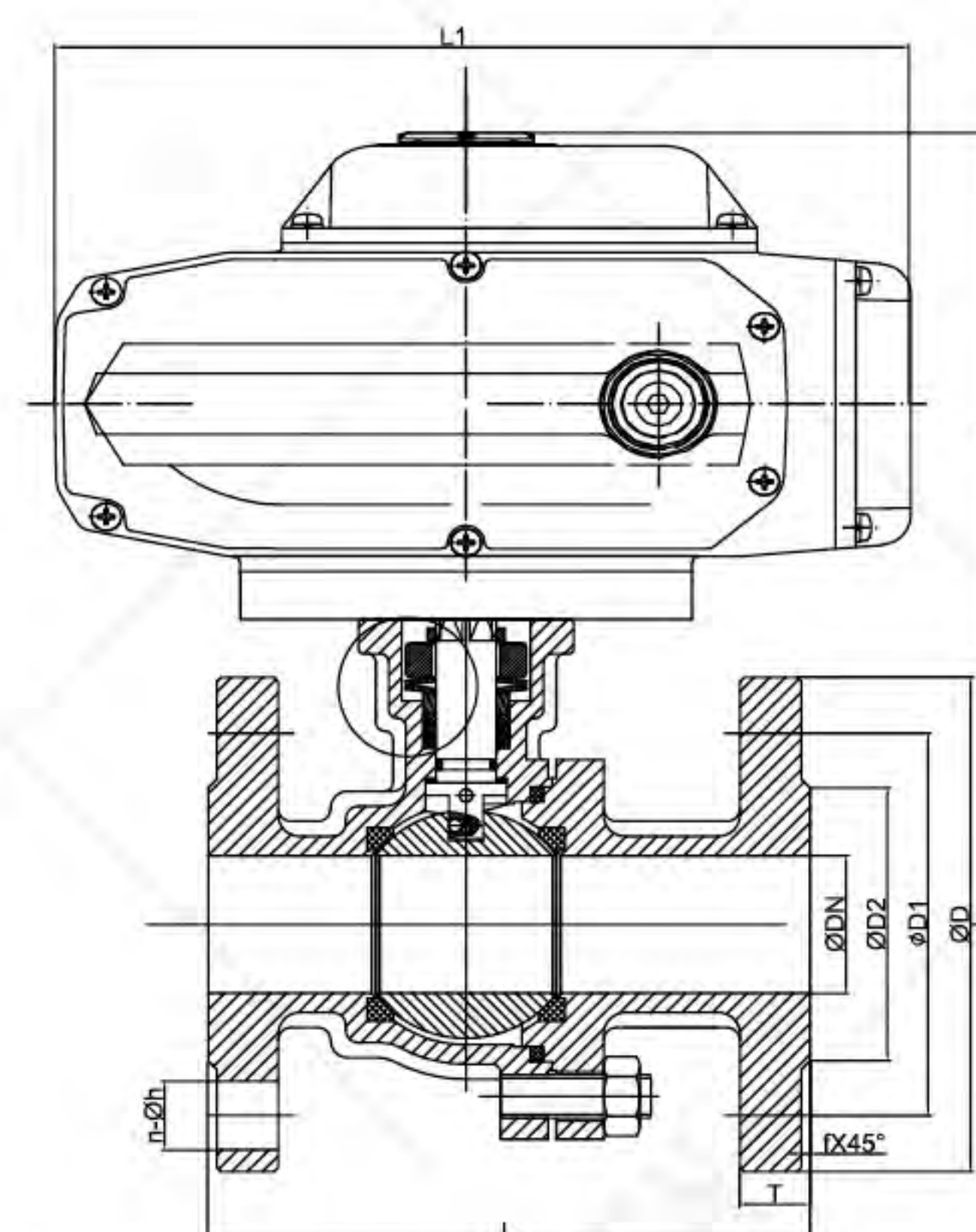
### Dimentional Data

| Size |     | D   | D1    | D2    | L   | n-Φh    | T    | f | SR    |       |         | DA    |       |         |
|------|-----|-----|-------|-------|-----|---------|------|---|-------|-------|---------|-------|-------|---------|
| DN   | In. |     |       |       |     |         |      |   | H     | L1    | WT (kg) | H     | L1    | WT (kg) |
| 15   | ½   | 90  | 60.3  | 34.9  | 108 | 4-Φ16   | 11.6 | 2 | 151.5 | 162   | 3.7     | 140.5 | 139.5 | 2.9     |
| 20   | ¾   | 100 | 69.9  | 42.9  | 117 | 4-Φ16   | 13.2 | 2 | 172   | 207   | 5.5     | 155.5 | 162   | 3.9     |
| 25   | 1   | 110 | 79.4  | 50.8  | 127 | 4-Φ16   | 14.7 | 2 | 180   | 207   | 6.3     | 163.5 | 162   | 4.7     |
| 32   | 1¼  | 115 | 88.9  | 63.5  | 140 | 4-Φ16   | 16.3 | 2 | 188   | 207   | 7.2     | 171.5 | 162   | 5.4     |
| 40   | 1½  | 125 | 98.4  | 73    | 165 | 4-Φ16   | 17.9 | 2 | 209.5 | 237.5 | 10.3    | 198   | 207   | 8.5     |
| 50   | 2   | 150 | 120.7 | 92.1  | 178 | 4-Φ19   | 19.5 | 2 | 229.5 | 271.5 | 15.3    | 216.5 | 237.5 | 12.1    |
| 65   | 2½  | 180 | 139.7 | 104.8 | 190 | 4-Φ19   | 23   | 2 | 285.5 | 328   | 22.8    | 255.5 | 271.5 | 18.8    |
| 80   | 3   | 190 | 152.4 | 127   | 203 | 4-Φ19   | 24.3 | 2 | 307.5 | 366   | 29.3    | 295.5 | 328   | 25.3    |
| 100  | 4   | 230 | 190.5 | 157.2 | 229 | 8-Φ19   | 24.3 | 2 | 353   | 428   | 43.7    | 330.5 | 366   | 33.6    |
| 125  | 5   | 254 | 216   | 186   | 356 | 8-Φ22.3 | 24.3 | 2 | 401   | 430   | 61.9    | 385   | 428   | 54.9    |



### Dimentional Data

| Size |     | D   | D1    | D2    | L   | H    | n-Φh  | T    | f | H     | L1    | WT (kg) |
|------|-----|-----|-------|-------|-----|------|-------|------|---|-------|-------|---------|
| DN   | In. |     |       |       |     |      |       |      |   |       |       |         |
| 15   | ½   | 90  | 60.3  | 34.9  | 108 | 57   | 4-Φ16 | 11.6 | 2 | 186.5 | 165   | 4.3     |
| 20   | ¾   | 100 | 69.9  | 42.9  | 117 | 57   | 4-Φ16 | 13.2 | 2 | 191.5 | 165   | 4.7     |
| 25   | 1   | 110 | 79.4  | 50.8  | 127 | 56.4 | 4-Φ16 | 14.7 | 2 | 196   | 165   | 5.6     |
| 32   | 1¼  | 115 | 88.9  | 63.5  | 140 | 70.3 | 4-Φ16 | 16.3 | 2 | 208.5 | 165   | 6.5     |
| 40   | 1½  | 125 | 98.4  | 73    | 165 | 79   | 4-Φ16 | 17.9 | 2 | 246.5 | 211.5 | 10.3    |
| 50   | 2   | 150 | 120.7 | 92.1  | 178 | 86.7 | 4-Φ19 | 19.5 | 2 | 253.5 | 211.5 | 12.9    |
| 65   | 2½  | 180 | 139.7 | 104.8 | 190 | 114  | 4-Φ19 | 23   | 2 | 317   | 259   | 20.9    |
| 80   | 3   | 190 | 152.4 | 127   | 203 | 121  | 4-Φ19 | 24.3 | 2 | 325   | 259   | 24.5    |
| 100  | 4   | 230 | 190.5 | 157.2 | 229 | 140  | 8-Φ19 | 24.3 | 2 | 338   | 259   | 30.9    |



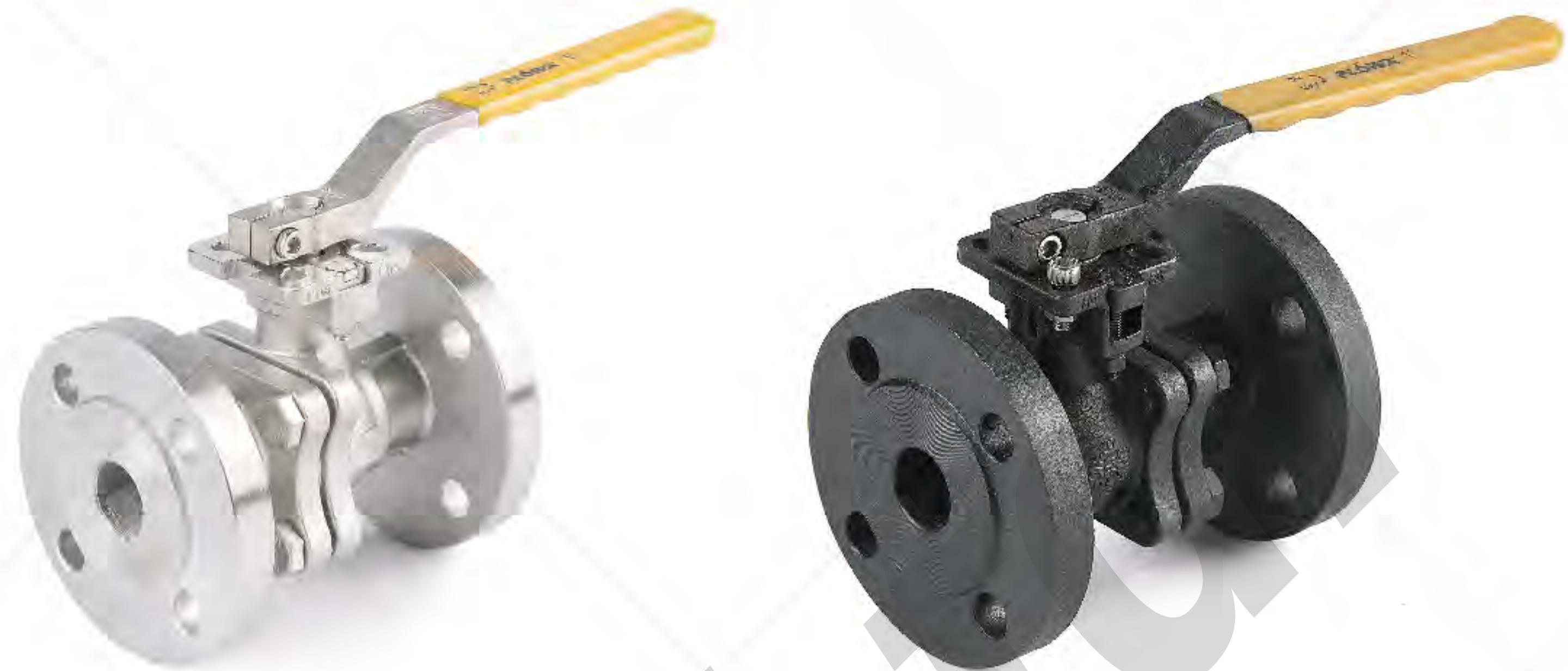
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## GB Flange Ball Valves

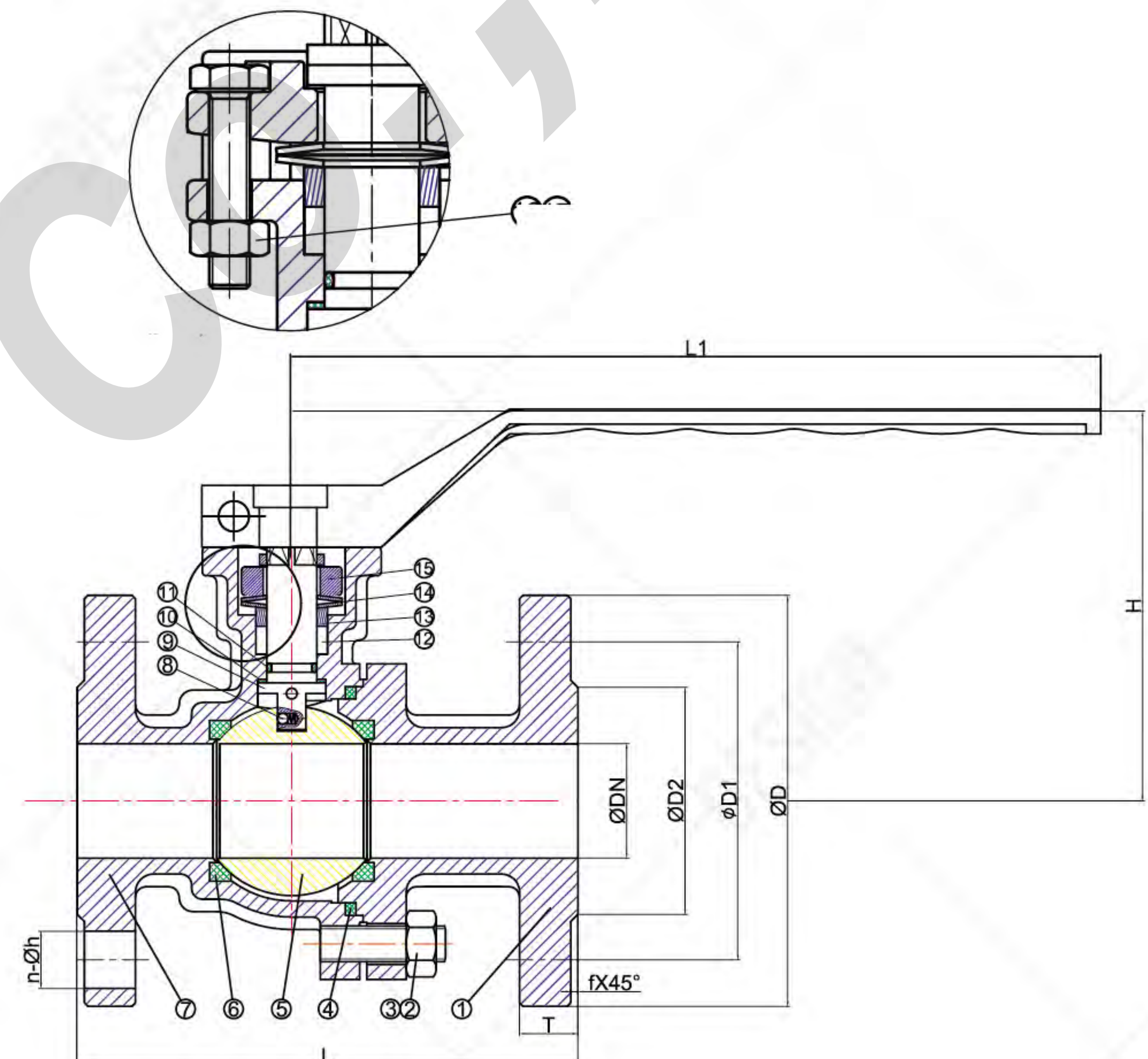
### Features

- > Full port stainless or carbon steel flanged ball valve
- > 1/2" through 8" with PN16 GB flanges
- > Antistatic device
- > Blowout-proof stem
- > Pressure rating PN16
- > Temperature rating varies from with o-ring material
- > API 607 fire safe tested and certified
- > Belleville washers and adjustable packing for high cycle applications
- > Inspection and testing to current GB/13927



### Material List

| NO. | PARTS NAME        | MATERIAL        | QTY |
|-----|-------------------|-----------------|-----|
| 1   | BONNET            | DI/WCB/CF8/CF8M | 1   |
| 2   | DOUBLE END STUD   | A 193 B8        |     |
| 3   | NUT               | A 194 8         |     |
| 4   | BODY GASKET       | PTFE            | 1   |
| 5   | BALL              | SS304/SS316     | 1   |
| 6   | SEAT              | TFM1600         | 1   |
| 7   | BODY              | DI/WCB/CF8/CF8M | 1   |
| 8   | ANTISTATIC DEVICE | SS              | 1   |
| 9   | STEM              | SS304/SS316     | 1   |
| 10  | THRUST WASHER     | RTFE            | 1   |
| 11  | O-RING            | VITON           | 1   |
| 12  | PACKING           | TFM1600         | 3   |
| 13  | PACKING GLAND     | SS              | 1   |
| 14  | DISC SPRING       | SS              | 2   |
| 15  | PACKING GLAND     | WCB/SS          | 1   |
| 16  | SCREW             | A 193 B8        | 2   |
| 17  | NUT               | A 194 8         | 2   |



### Dimentional Data

| Size |       | D   | D1  | D2  | L   | n-Φh     | T  | f | H     | L2  | WT (kg) |
|------|-------|-----|-----|-----|-----|----------|----|---|-------|-----|---------|
| DN   | In.   |     |     |     |     |          |    |   |       |     |         |
| 15   | 1/2   | 95  | 65  | 45  | 130 | 4-Φ14    | 16 | 2 | 77    | 165 | 2.5     |
| 20   | 3/4   | 105 | 75  | 58  | 130 | 4-Φ14    | 18 | 2 | 82    | 165 | 3.2     |
| 25   | 1     | 115 | 85  | 68  | 140 | 4-Φ14    | 18 | 2 | 88.5  | 196 | 4.1     |
| 32   | 1 1/4 | 140 | 100 | 78  | 165 | 4-Φ18    | 18 | 2 | 101   | 196 | 5.8     |
| 40   | 1 1/2 | 150 | 110 | 88  | 165 | 4-Φ18    | 18 | 2 | 115.5 | 232 | 7.6     |
| 50   | 2     | 165 | 125 | 102 | 203 | 4-Φ18    | 20 | 2 | 122.5 | 232 | 9.7     |
| 65   | 2 1/2 | 185 | 145 | 122 | 222 | 8(4)-Φ18 | 18 | 2 | 184   | 300 | 14.5    |
| 80   | 3     | 200 | 160 | 138 | 241 | 8-Φ18    | 20 | 2 | 192   | 300 | 17.1    |
| 100  | 4     | 220 | 180 | 158 | 305 | 8-Φ18    | 22 | 2 | 227   | 400 | 23.4    |

### Valve Operator

Lever operation

- Pneumatic or electric actuators
  - available.
  - Limit switches, positioners, solenoid valves and many other
  - customer options available.
- Contact FLOWX for appropriate choice and sizing of valve actuators.

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## GB Flange Ball Valves

### Features of Actuators

- > Heavy duty Rack and pinion design
- > Spring return or double acting
- > Open and closed adjustment stops
- > True NAMUR accessory and ISO mounting
- > Visual indicator, Top Mount indicator
- > High temperature and corrosion resistant models available
- > Solenoids, limit switches, positioners and other accessories are available
- > Fully adjustable limit switches allow for fine control of on-off positions
- > All electric actuators are available for modulating (4-20mA control) or on-off service
- > Motor has thermal overload protection
- > Running Time: 9s/13s/15s/30s/50s/100s/150s
- > Heavy-duty gear train motor with permanent lubrication
- > ISO bottom mounting for direct mount actuation with true ISO valves on most models



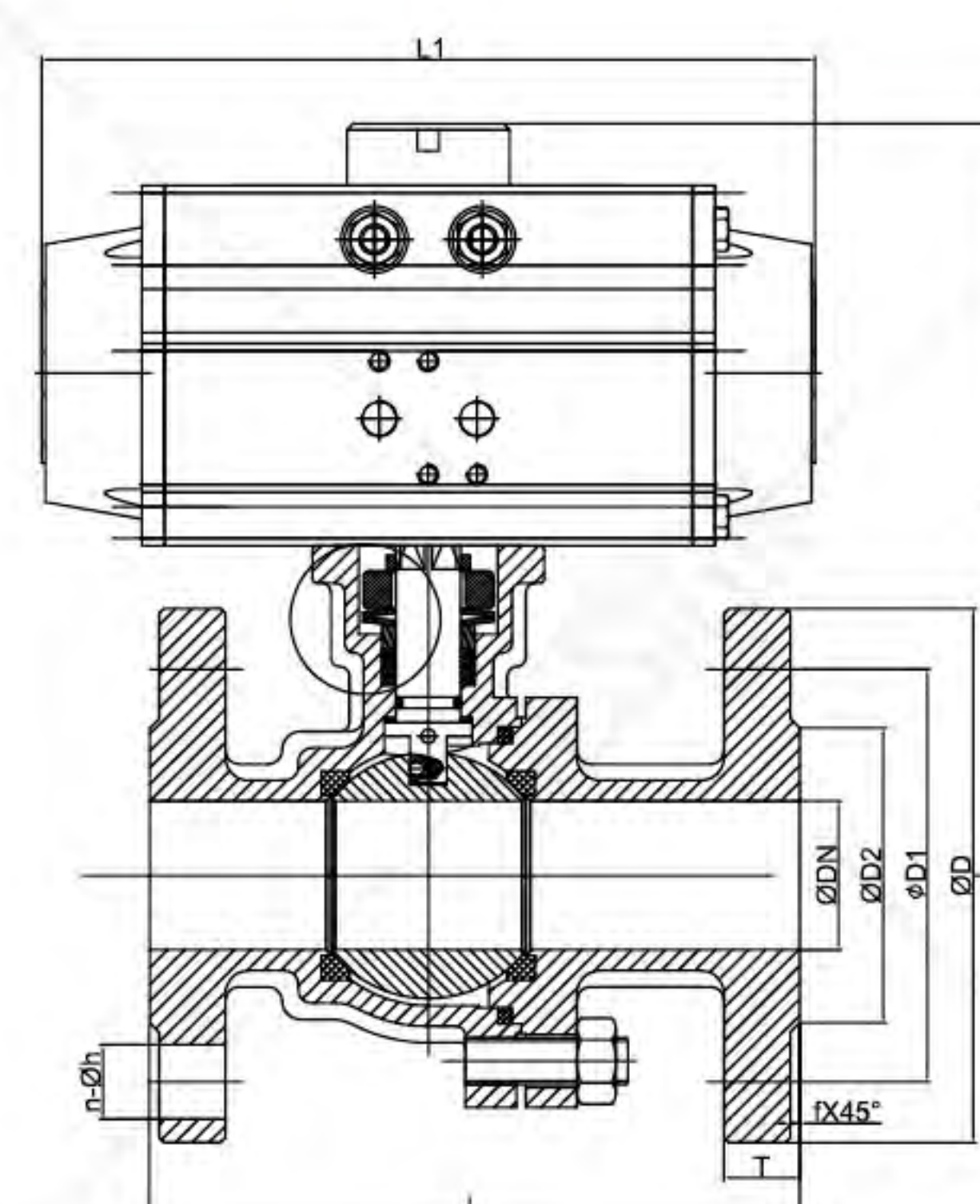
*Pneumatically Operated*



*Electrically Operated*

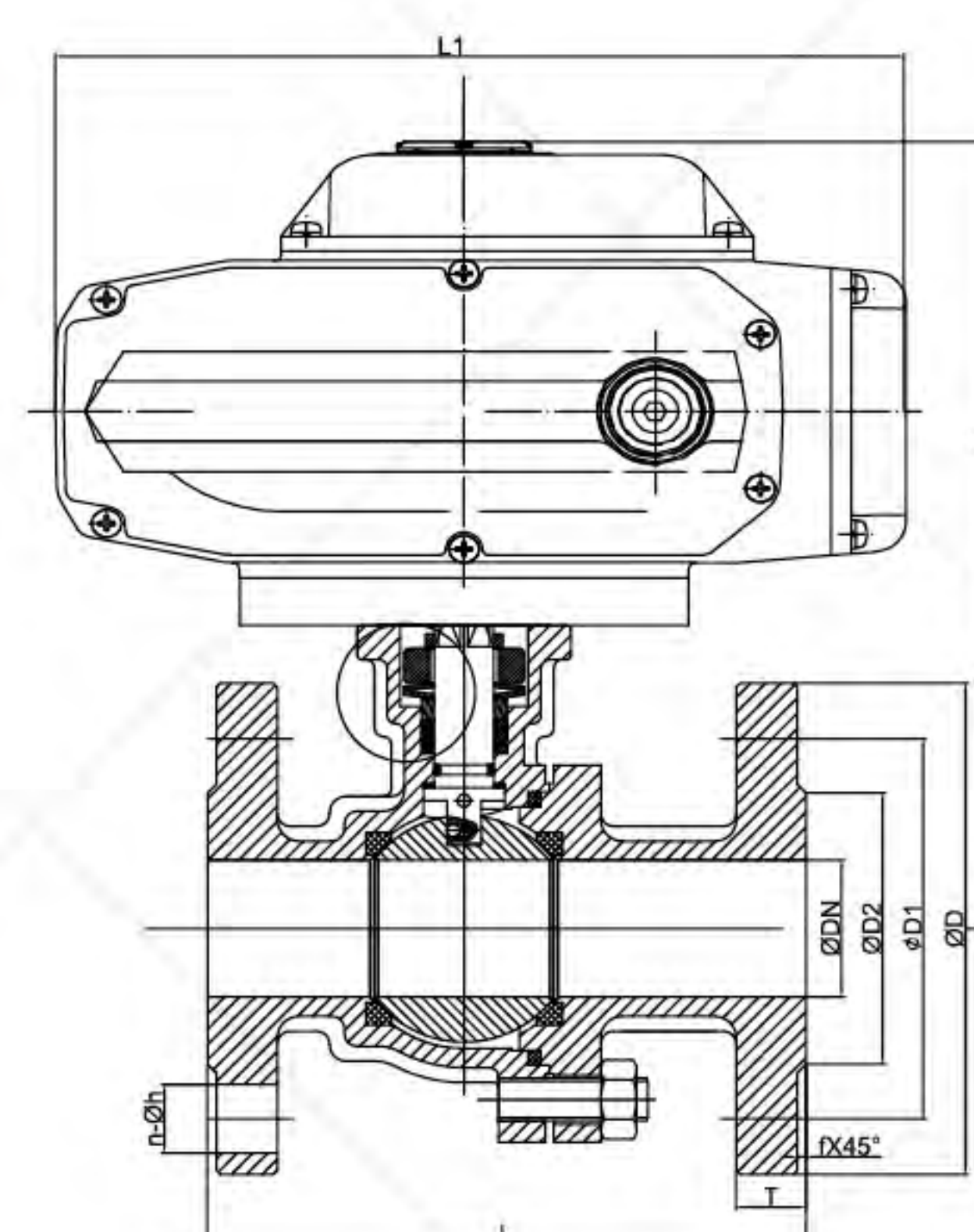
### Dimentional Data

| Size |     | D   | D1  | D2  | L   | n-Φh     | T  | f | SR    |       |         | DA    |       |         |
|------|-----|-----|-----|-----|-----|----------|----|---|-------|-------|---------|-------|-------|---------|
| DN   | In. |     |     |     |     |          |    |   | H     | L1    | WT (kg) | H     | L1    | WT (kg) |
| 15   | ½   | 95  | 65  | 45  | 130 | 4-Φ14    | 16 | 2 | 151.5 | 162   | 4.3     | 140.5 | 139.5 | 3.5     |
| 20   | ¾   | 105 | 75  | 58  | 130 | 4-Φ14    | 18 | 2 | 172   | 207   | 6.3     | 155.5 | 162   | 4.7     |
| 25   | 1   | 115 | 85  | 68  | 140 | 4-Φ14    | 18 | 2 | 180   | 207   | 7.2     | 163.5 | 162   | 5.6     |
| 32   | 1¼  | 140 | 100 | 78  | 165 | 4-Φ18    | 18 | 2 | 188   | 207   | 8.8     | 171.5 | 162   | 7.2     |
| 40   | 1½  | 150 | 110 | 88  | 165 | 4-Φ18    | 18 | 2 | 209.5 | 237.5 | 11.7    | 198   | 207   | 9.9     |
| 50   | 2   | 165 | 125 | 102 | 203 | 4-Φ18    | 20 | 2 | 229.5 | 271.5 | 16.1    | 216.5 | 237.5 | 12.9    |
| 65   | 2½  | 185 | 145 | 122 | 222 | 8(4)-Φ18 | 18 | 2 | 285.5 | 328   | 23.3    | 255.5 | 271.5 | 19.3    |
| 80   | 3   | 200 | 160 | 138 | 241 | 8-Φ18    | 20 | 2 | 307.5 | 366   | 28.9    | 295.5 | 328   | 24.9    |
| 100  | 4   | 220 | 180 | 158 | 305 | 8-Φ18    | 22 | 2 | 353   | 428   | 43.2    | 330.5 | 366   | 33.1    |
| 125  | 5   | 250 | 210 | 188 | 356 | 8-Φ18    | 24 | 2 | 401   | 430   | 59.9    | 385   | 428   | 52.9    |



### Dimentional Data

| Size |     | D   | D1  | D2  | L   | n-Φh     | T  | f | H     | L1    | WT (kg) |
|------|-----|-----|-----|-----|-----|----------|----|---|-------|-------|---------|
| DN   | In. |     |     |     |     |          |    |   |       |       |         |
| 15   | ½   | 95  | 65  | 45  | 130 | 4-Φ14    | 16 | 2 | 186.5 | 165   | 4.9     |
| 20   | ¾   | 105 | 75  | 58  | 130 | 4-Φ14    | 18 | 2 | 191.5 | 165   | 5.6     |
| 25   | 1   | 115 | 85  | 68  | 140 | 4-Φ14    | 18 | 2 | 196   | 165   | 6.5     |
| 32   | 1¼  | 140 | 100 | 78  | 165 | 4-Φ18    | 18 | 2 | 208.5 | 165   | 8.1     |
| 40   | 1½  | 150 | 110 | 88  | 165 | 4-Φ18    | 18 | 2 | 246.5 | 211.5 | 11.7    |
| 50   | 2   | 165 | 125 | 102 | 203 | 4-Φ18    | 20 | 2 | 253.5 | 211.5 | 13.7    |
| 65   | 2½  | 185 | 145 | 122 | 222 | 8(4)-Φ18 | 18 | 2 | 317   | 259   | 21.5    |
| 80   | 3   | 200 | 160 | 138 | 241 | 8-Φ18    | 20 | 2 | 325   | 259   | 24.1    |
| 100  | 4   | 220 | 180 | 158 | 305 | 8-Φ18    | 22 | 2 | 338   | 259   | 30.4    |
| 125  | 5   | 250 | 210 | 188 | 356 | 8-Φ18    | 24 | 2 | 376   | 259   | 45.5    |



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## 3-Piece Clamp Ball Valves

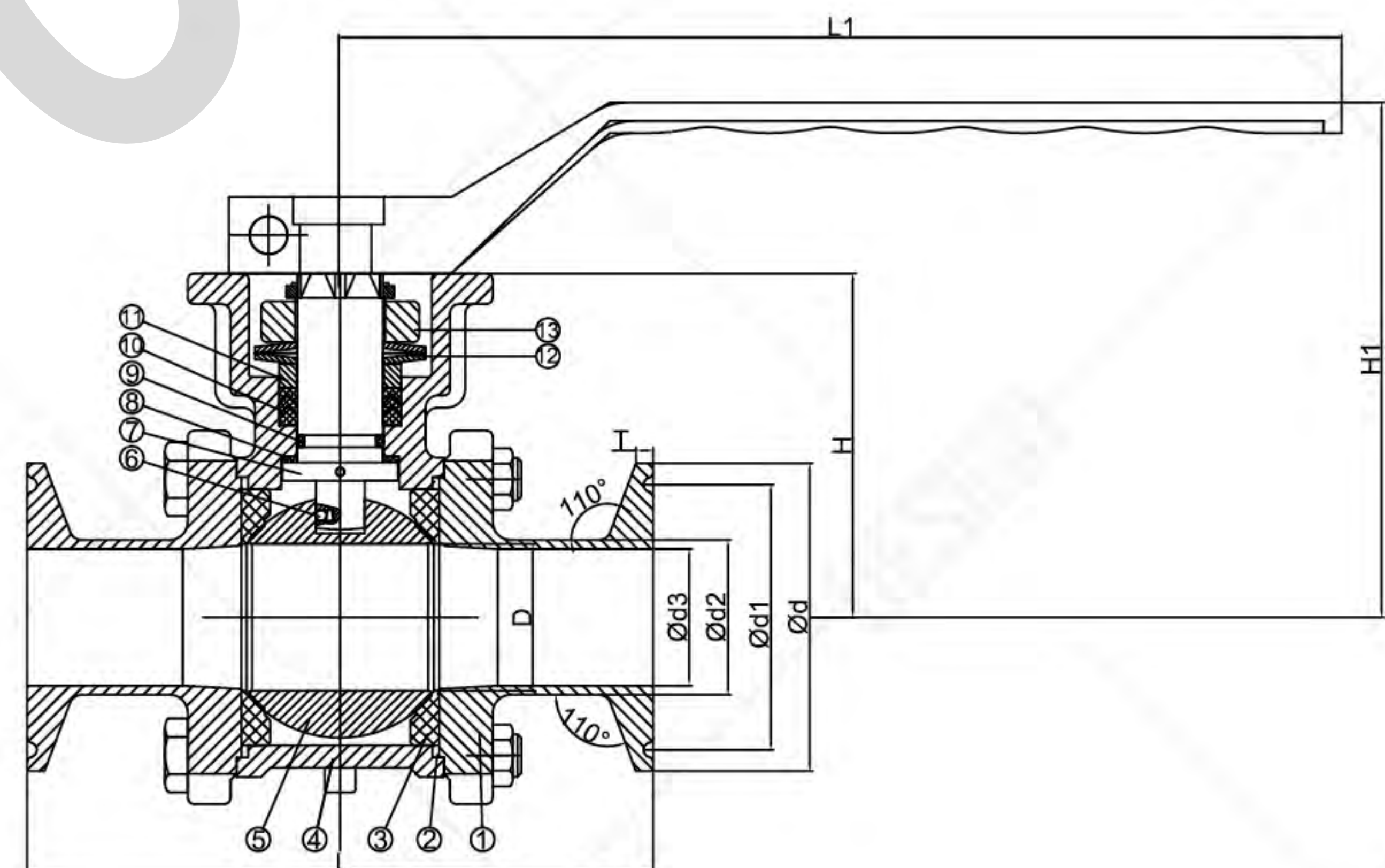
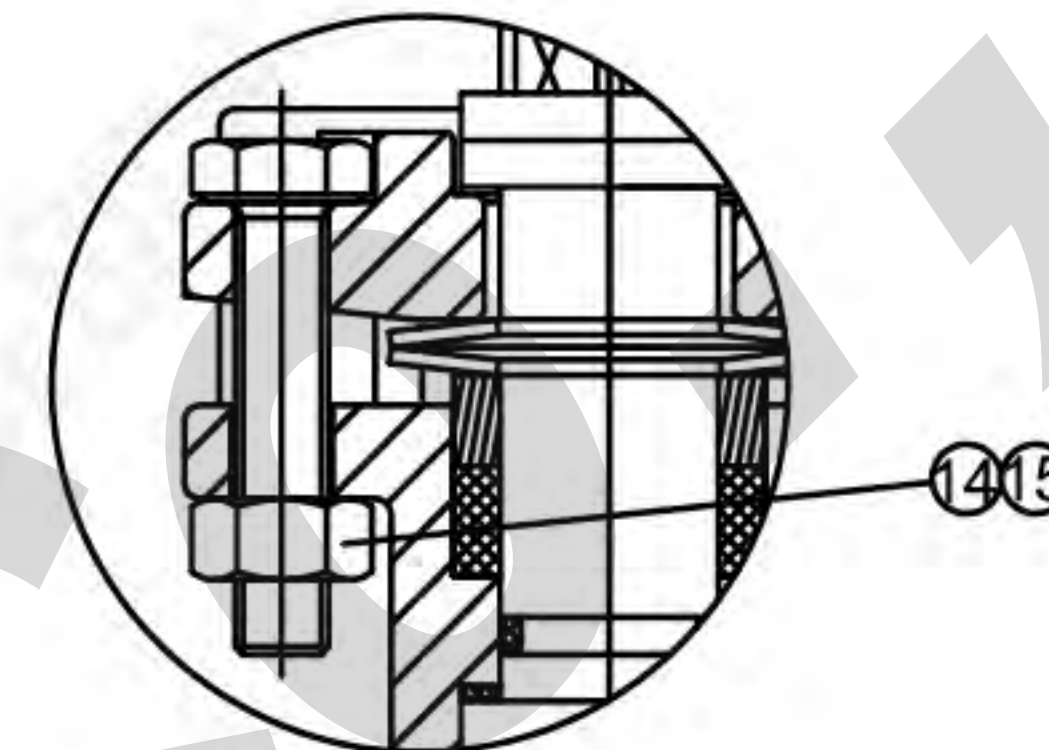
### ■ Features

- > Full port stainless steel sanitary ball valve
- > 1/2" through 4" clamp end
- > 1000 Wog working pressure
- > Temperature rating varies from with o-ring material
- > Antistatic device
- > Blowout-proof stem
- > Swing out design for easy maintenance
- > Cavity filler TFE seats and seals to reduce risk of product entrapment
- > Ideal for food, beverage and pharmaceutical applications
- > ISO mounting pad for direct mount automation



### ■ Material List

| NO. | PARTS NAME    | MATERIAL    | QTY |
|-----|---------------|-------------|-----|
| 1   | BONNET        | CF8/CF8M    | 2   |
| 2   | SEAT          | PTFE        | 2   |
| 3   | SEAT          | TFM1600     | 2   |
| 4   | BODY          | CF8/CF8M    | 1   |
| 5   | BALL          | SS304/SS316 | 1   |
| 6   | ESD           | SS          | 1   |
| 7   | STEM          | SS304/SS316 | 1   |
| 8   | THRUST WASHER | PTFE        | 1   |
| 9   | O-RING        | VITON       | 1   |
| 10  | PACKING       | TFM1600     | 3   |
| 11  | PACKING RING  | SS          | 1   |
| 12  | DISC SPRING   | SS          | 2   |
| 13  | PACKING GLAND | SS          | 1   |
| 14  | NUT           | A 194 8     | 2   |
| 15  | BOLT          | A 193 B8    | 2   |



### ■ Dimentional Data

| Size |       | D  | d    | d1   | d2    | d3   | L     | H    | T    | L1  | H1    |
|------|-------|----|------|------|-------|------|-------|------|------|-----|-------|
| DN   | In.   |    |      |      |       |      |       |      |      |     |       |
| 15   | 1/2   | 15 | 25.4 | 18   | 12.7  | 9.7  | 89    | 44.5 | 2.85 | 165 | 72.5  |
| 20   | 3/4   | 20 | 34   | 27   | 19    | 16   | 101.6 | 46   | 2.85 | 165 | 74    |
| 25   | 1     | 25 | 50.5 | 43.5 | 25.4  | 22.4 | 114.3 | 56.4 | 2.85 | 196 | 86.4  |
| 32   | 1 1/4 | 32 | 50.5 | 43.5 | 32    | 29   | 120   | 70.3 | 2.85 | 196 | 100.3 |
| 40   | 1 1/2 | 38 | 50.5 | 43.5 | 38    | 35   | 139.7 | 79   | 2.85 | 232 | 116.5 |
| 50   | 2     | 50 | 64   | 56.5 | 51    | 48   | 158.4 | 86.7 | 2.85 | 232 | 124.2 |
| 65   | 2 1/2 | 64 | 77.5 | 70.5 | 63.5  | 59.5 | 171.5 | 114  | 2.85 | 300 | 184   |
| 80   | 3     | 72 | 91   | 83.5 | 76.6  | 72   | 197   | 121  | 2.85 | 300 | 191   |
| 100  | 4     | 98 | 119  | 110  | 102.6 | 98   | 241   | 140  | 2.85 | 400 | 232   |

### Valve Operator

Lever operation

- Pneumatic or electric actuators available.
- Limit switches, positioners, solenoid valves and many other customer options available.
- Contact FLOWX for appropriate choice and sizing of valve actuators.

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## 3-Piece Clamp Ball Valves

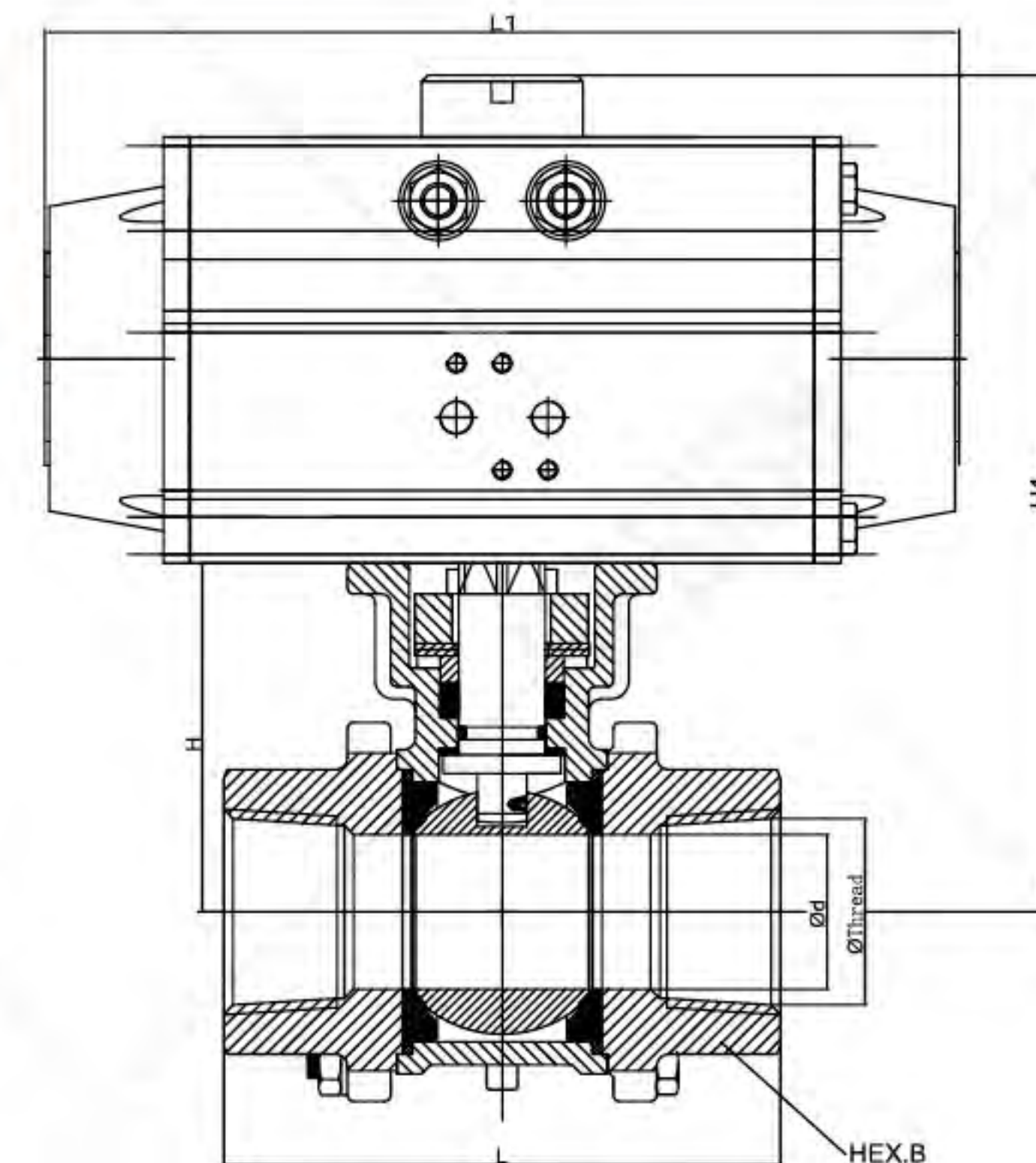
### Features of Actuators

- > Heavy duty Rack and pinion design
- > Spring return or double acting
- > Open and closed adjustment stops
- > True NAMUR accessory and ISO mounting
- > Visual indicator, Top Mount indicator
- > High temperature and corrosion resistant models available
- > Solenoids, limit switches, positioners and other accessories are available
- > Fully adjustable limit switches allow for fine control of on-off positions
- > All electric actuators are available for modulating (4-20mA control) or on-off service
- > Motor has thermal overload protection
- > Running Time: 9s/13s/15s/30s/50s/100s/150s
- > Heavy-duty gear train motor with permanent lubrication
- > ISO bottom mounting for direct mount actuation with true ISO valves on most models



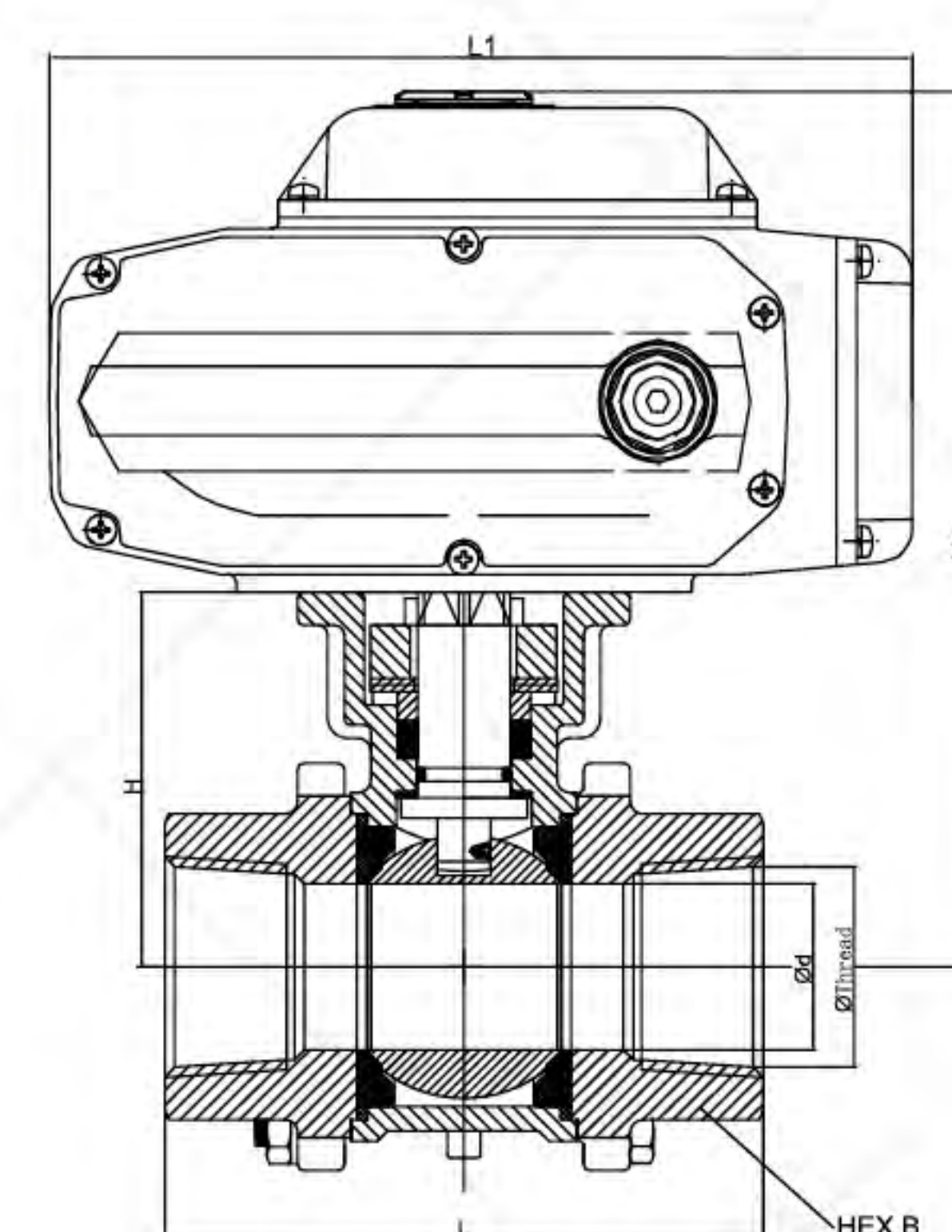
### Dimentional Data

| Size |     | D  | d    | d1   | d2    | d3   | L     | H    | T    | SR    |       | DA    |       |
|------|-----|----|------|------|-------|------|-------|------|------|-------|-------|-------|-------|
| DN   | In. |    |      |      |       |      |       |      |      | H1    | L1    | H1    | L1    |
| 15   | ½   | 15 | 25.4 | 18   | 12.7  | 9.7  | 89    | 44.5 | 2.85 | 133   | 162   | 123   | 139.5 |
| 20   | ¾   | 20 | 34   | 27   | 19    | 16   | 101.6 | 46   | 2.85 | 151   | 207   | 134.5 | 162   |
| 25   | 1   | 25 | 50.5 | 43.5 | 25.4  | 22.4 | 114.3 | 56.4 | 2.85 | 161.4 | 207   | 144.9 | 162   |
| 32   | 1¼  | 32 | 50.5 | 43.5 | 32    | 29   | 120   | 70.3 | 2.85 | 176.3 | 207   | 158.8 | 162   |
| 40   | 1½  | 38 | 50.5 | 43.5 | 38    | 35   | 139.7 | 79   | 2.85 | 195.5 | 237.5 | 148   | 207   |
| 50   | 2   | 50 | 64   | 56.5 | 51    | 48   | 158.4 | 86.7 | 2.85 | 216.5 | 271.5 | 203.2 | 237.5 |
| 65   | 2½  | 64 | 77.5 | 70.5 | 63.5  | 59.5 | 171.5 | 114  | 2.85 | 263.5 | 328   | 243.5 | 271.5 |
| 80   | 3   | 72 | 91   | 83.5 | 76.6  | 72   | 197   | 121  | 2.85 | 292.5 | 366   | 250.5 | 328   |
| 100  | 4   | 98 | 119  | 110  | 102.6 | 98   | 241   | 140  | 2.85 | 334   | 428   | 311.5 | 366   |



### Dimentional Data

| Size |     | D  | d    | d1   | d2    | d3   | L     | H    | T    | L1    | H1    |
|------|-----|----|------|------|-------|------|-------|------|------|-------|-------|
| DN   | In. |    |      |      |       |      |       |      |      |       |       |
| 15   | ½   | 15 | 25.4 | 18   | 12.7  | 9.7  | 89    | 44.5 | 2.85 | 165   | 182   |
| 20   | ¾   | 20 | 34   | 27   | 19    | 16   | 101.6 | 46   | 2.85 | 165   | 183.5 |
| 25   | 1   | 25 | 50.5 | 43.5 | 25.4  | 22.4 | 114.3 | 56.4 | 2.85 | 165   | 193.9 |
| 32   | 1¼  | 32 | 50.5 | 43.5 | 32    | 29   | 120   | 70.3 | 2.85 | 165   | 207.8 |
| 40   | 1½  | 38 | 50.5 | 43.5 | 38    | 35   | 139.7 | 79   | 2.85 | 165   | 216.5 |
| 50   | 2   | 50 | 64   | 56.5 | 51    | 48   | 158.4 | 86.7 | 2.85 | 211.5 | 255.2 |
| 65   | 2½  | 64 | 77.5 | 70.5 | 63.5  | 59.5 | 171.5 | 114  | 2.85 | 259   | 317   |
| 80   | 3   | 72 | 91   | 83.5 | 76.6  | 72   | 197   | 121  | 2.85 | 259   | 324   |
| 100  | 4   | 98 | 119  | 110  | 102.6 | 98   | 241   | 140  | 2.85 | 259   | 343   |



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## Butt Welding Ball Valves

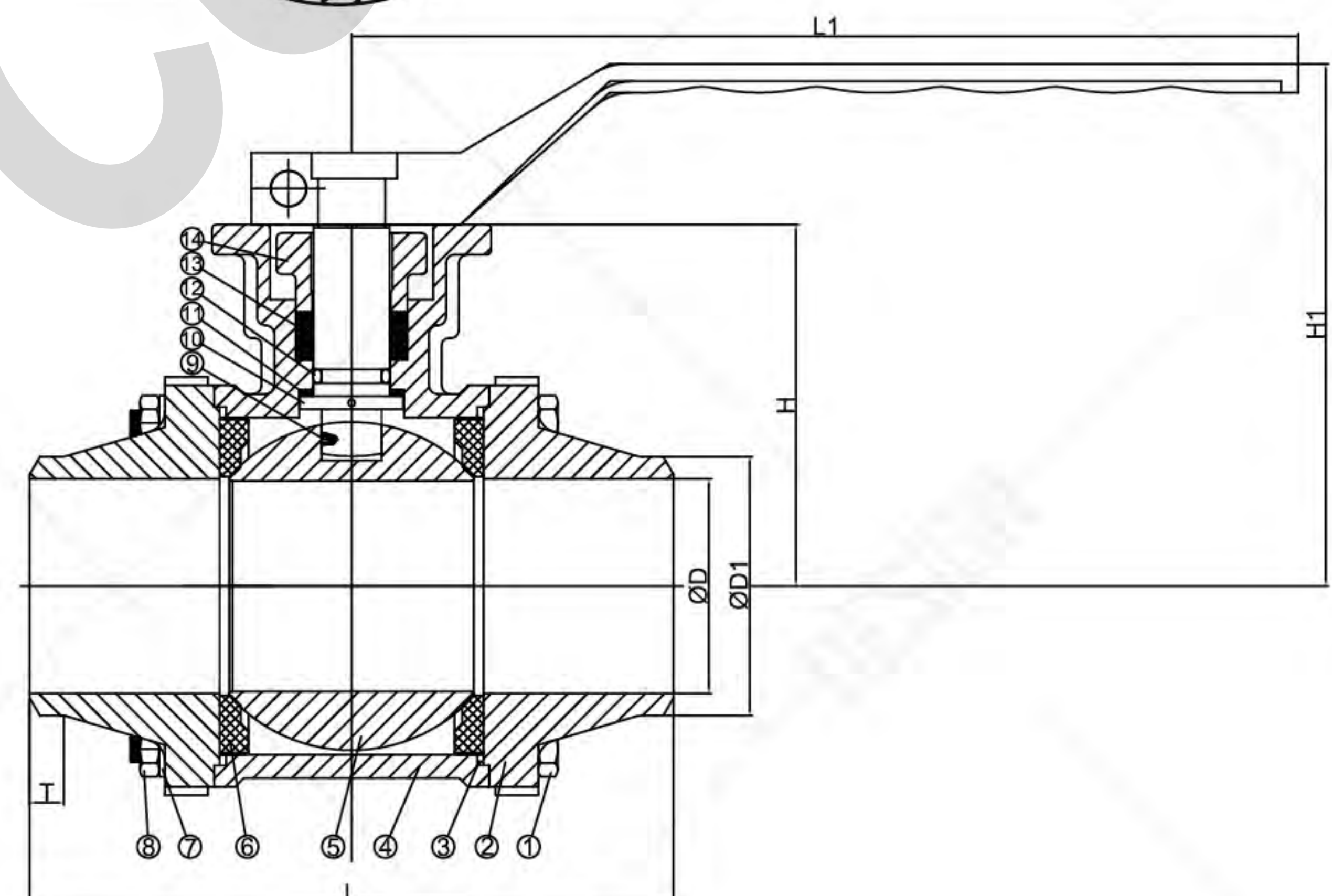
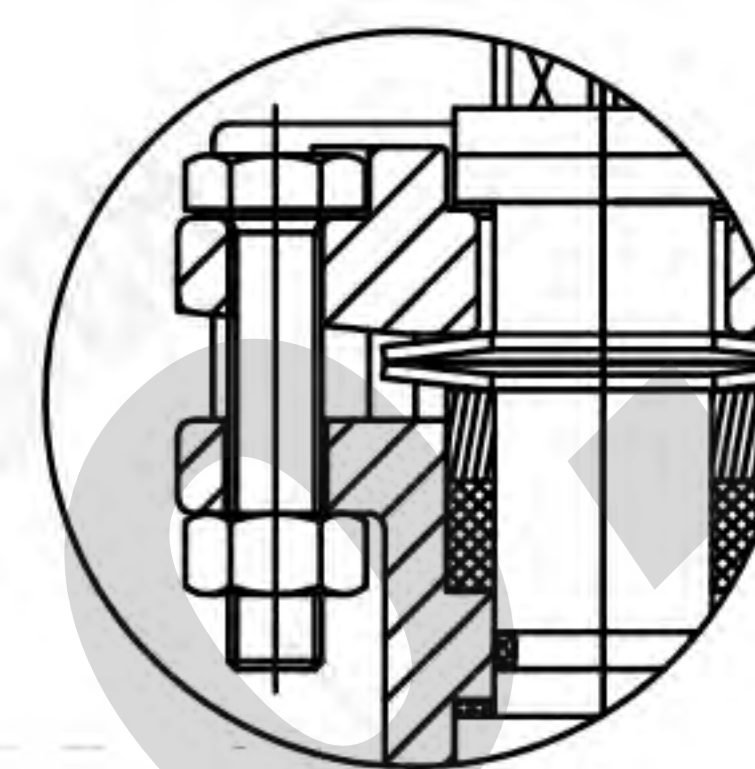
### Features

- > Full port stainless steel ball valve
- > 1/2" through 4"
- > Butt Welding end connections
- > 1000 Wog working pressure
- > Temperature rating varies from with o-ring material
- > Antistatic device
- > Blowout-proof stem
- > Inspection and testing to MSS SP-110



### Material List

| NO. | PARTS NAME        | MATERIAL    | QTY |
|-----|-------------------|-------------|-----|
| 1   | BOLT              | A2-70       | 4   |
| 2   | BONNET            | CF8/CF8M    | 1   |
| 3   | BODY GASKET       | TFM1600     | 1   |
| 4   | BODY              | CF8/CF8M    | 1   |
| 5   | BALL              | SS304/SS316 | 1   |
| 6   | SEAT              | TFM1600     | 1   |
| 7   | SPRING WASHER     | SS          | 1   |
| 8   | NUT               | A2-70       | 4   |
| 9   | ANTISTATIC DEVICE | SS          | 1   |
| 10  | STEM              | SS304/SS316 | 1   |
| 11  | THRUST WASHER     | PTFE        | 1   |
| 12  | O-RING            | VITON       | 1   |
| 13  | PACKING           | TFM1600     | 3   |
| 14  | PACKING GLAND     | SS          | 1   |
| 15  | BOLT              | A2-70       | 2   |
| 16  | NUT               | A2-70       | 2   |



### Dimentional Data

| Size |       | D  | D1    | T  | L   | H    | L1  | H1    |
|------|-------|----|-------|----|-----|------|-----|-------|
| DN   | In.   |    |       |    |     |      |     |       |
| 15   | 1/2   | 15 | 21.3  | 5  | 73  | 44.5 | 165 | 72.5  |
| 20   | 3/4   | 20 | 26.9  | 6  | 80  | 46   | 165 | 74    |
| 25   | 1     | 25 | 33.7  | 6  | 100 | 56.4 | 196 | 86.4  |
| 32   | 1 1/4 | 32 | 42.4  | 6  | 110 | 70.3 | 196 | 100.3 |
| 40   | 1 1/2 | 38 | 48.3  | 7  | 125 | 79   | 232 | 116.5 |
| 50   | 2     | 50 | 60.3  | 8  | 150 | 86.7 | 232 | 124.2 |
| 65   | 2 1/2 | 64 | 76.1  | 10 | 190 | 114  | 300 | 184   |
| 80   | 3     | 72 | 89    | 10 | 220 | 121  | 300 | 191   |
| 100  | 4     | 98 | 114.3 | 12 | 270 | 140  | 400 | 232   |

### Valve Operator

Lever operation

- Pneumatic or electric actuators available.
- Limit switches, positioners, solenoid valves and many other customer options available.
- Contact FLOWX for appropriate choice and sizing of valve actuators.

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## Butt Welding Ball Valves

### Features of Actuators

- > Heavy duty Rack and pinion design
- > Spring return or double acting
- > Open and closed adjustment stops
- > True NAMUR accessory and ISO mounting
- > Visual indicator, Top Mount indicator
- > High temperature and corrosion resistant models available
- > Solenoids, limit switches, positioners and other accessories are available
- > Fully adjustable limit switches allow for fine control of on-off positions
- > All electric actuators are available for modulating (4-20mA control) or on-off service
- > Motor has thermal overload protection
- > Running Time: 9s/13s/15s/30s/50s/100s/150s
- > Heavy-duty gear train motor with permanent lubrication
- > ISO bottom mounting for direct mount actuation with true ISO valves on most models



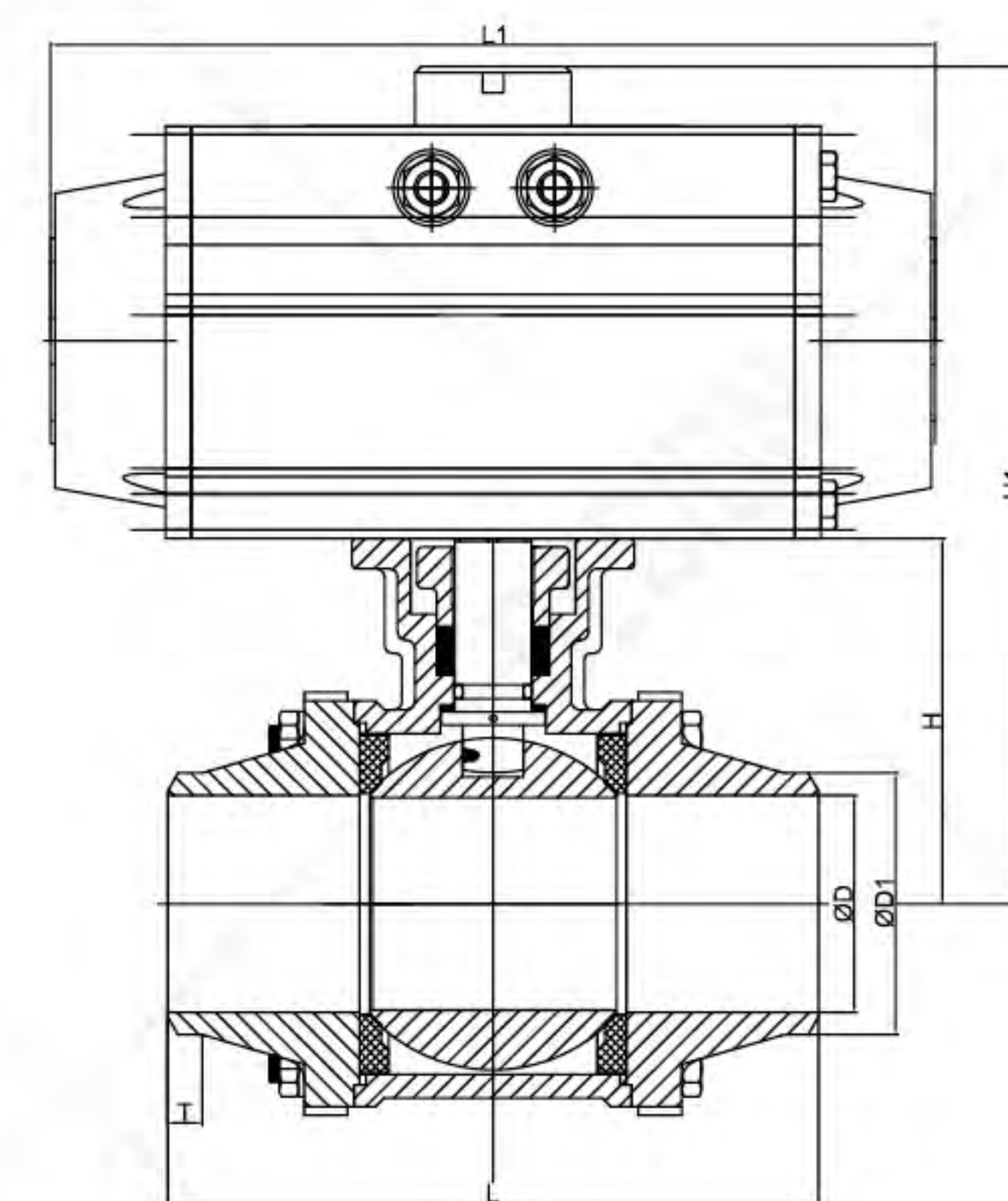
*Pneumatically Operated*



*Electrically Operated*

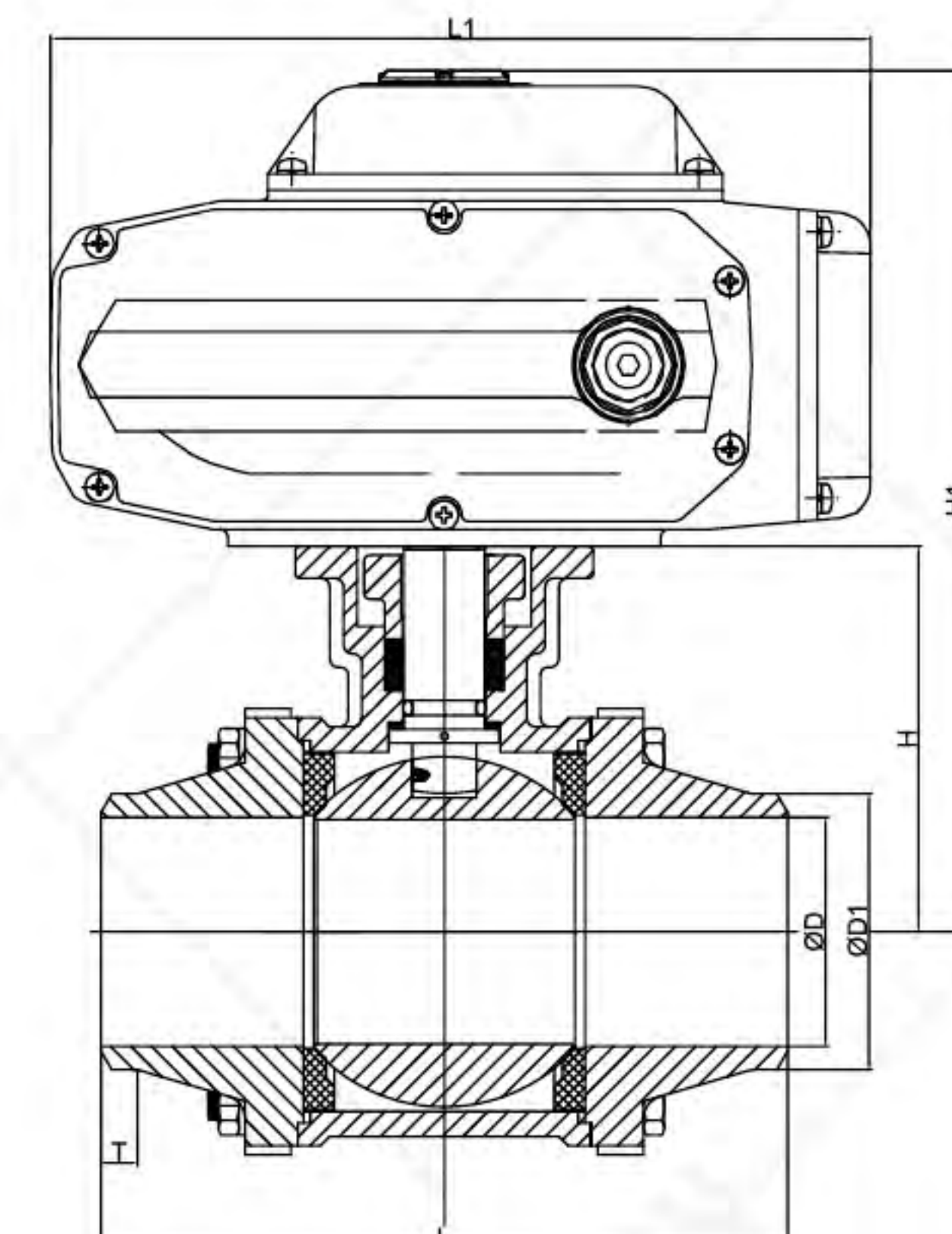
### Dimentional Data

| Size |       | D   | D1    | T  | L   | H    | SR    |       | DA    |       |
|------|-------|-----|-------|----|-----|------|-------|-------|-------|-------|
| DN   | In.   |     |       |    |     |      | H1    | L1    | H1    | L1    |
| 15   | 1/2   | 15  | 21.3  | 5  | 73  | 44.5 | 135   | 162   | 124   | 139.5 |
| 20   | 3/4   | 20  | 26.9  | 6  | 80  | 46   | 153   | 207   | 136.5 | 162   |
| 25   | 1     | 25  | 33.7  | 6  | 100 | 56.4 | 163.4 | 207   | 146.9 | 162   |
| 32   | 1 1/4 | 32  | 42.4  | 6  | 110 | 70.3 | 177.3 | 207   | 160.8 | 162   |
| 40   | 1 1/2 | 38  | 48.3  | 7  | 125 | 79   | 197.5 | 237.5 | 186   | 207   |
| 50   | 2     | 50  | 60.3  | 8  | 150 | 86.7 | 218.2 | 271.5 | 215.2 | 237.5 |
| 65   | 2 1/2 | 64  | 76.1  | 10 | 190 | 114  | 275.5 | 328   | 245.5 | 271.5 |
| 80   | 3     | 74  | 89    | 10 | 220 | 121  | 294.5 | 366   | 282.5 | 328   |
| 100  | 4     | 100 | 114.3 | 12 | 270 | 140  | 336   | 428   | 313.5 | 366   |



### Dimentional Data

| Size |       | D   | D1    | T  | L   | H    | L1    | H1    |
|------|-------|-----|-------|----|-----|------|-------|-------|
| DN   | In.   |     |       |    |     |      |       |       |
| 15   | 1/2   | 15  | 21.3  | 5  | 73  | 44.5 | 165   | 182   |
| 20   | 3/4   | 20  | 26.9  | 6  | 80  | 46   | 165   | 183.5 |
| 25   | 1     | 25  | 33.7  | 6  | 100 | 56.4 | 165   | 193.9 |
| 32   | 1 1/4 | 32  | 42.4  | 6  | 110 | 70.3 | 165   | 207.8 |
| 40   | 1 1/2 | 38  | 48.3  | 7  | 125 | 79   | 211.5 | 247.5 |
| 50   | 2     | 50  | 60.3  | 8  | 150 | 86.7 | 211.5 | 255.2 |
| 65   | 2 1/2 | 64  | 76.1  | 10 | 190 | 114  | 295   | 317   |
| 80   | 3     | 74  | 89    | 10 | 220 | 121  | 295   | 324   |
| 100  | 4     | 100 | 114.3 | 12 | 270 | 140  | 295   | 343   |



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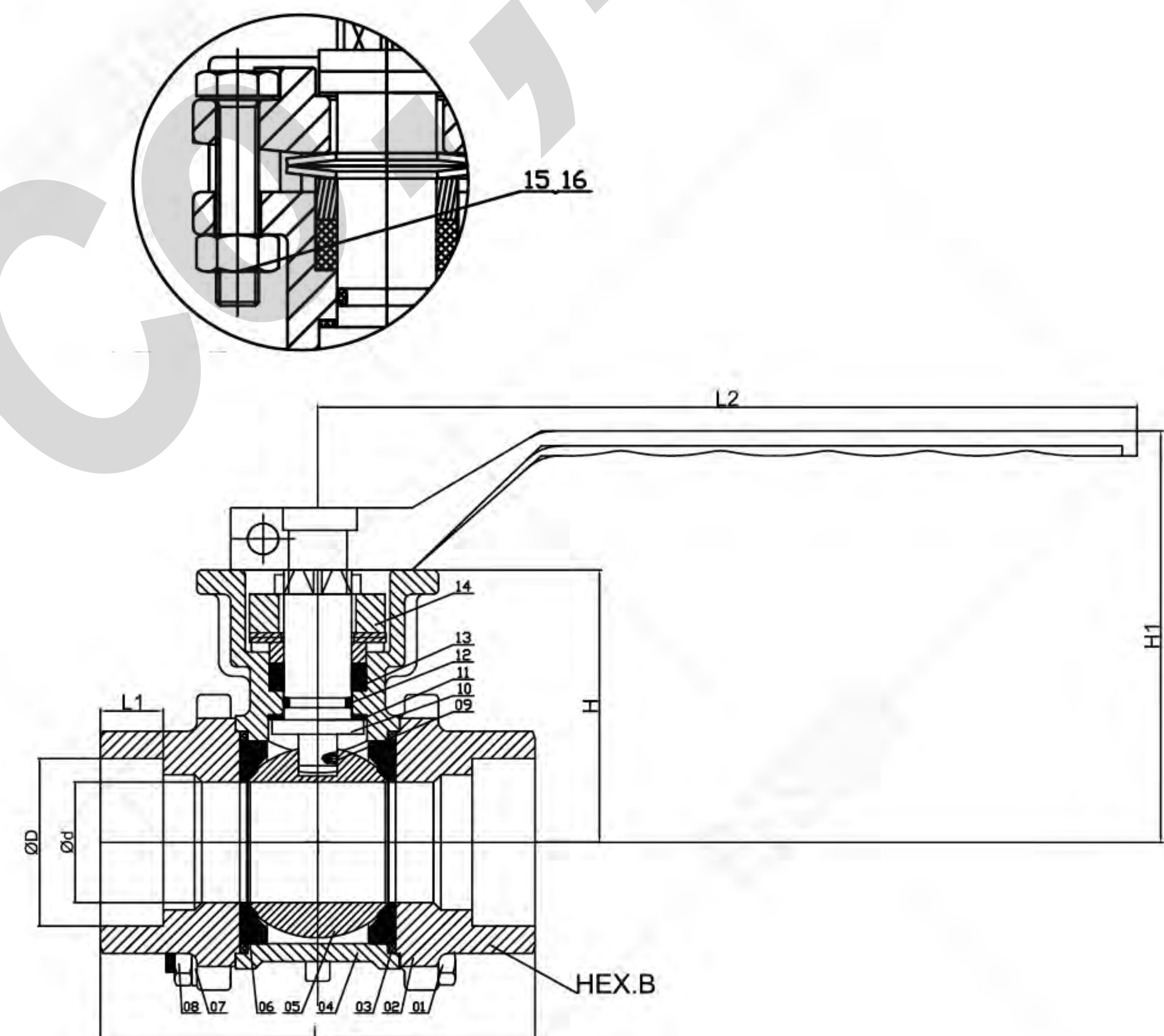
## Socket Welding Ball Valves

### Features

- > Full port stainless steel ball valve
- > 1/2" through 4"
- > Antistatic device
- > Blowout-proof stem
- > 1000 Wog working pressure
- > Temperature rating varies from with o-ring material
- > Socket Welding end connections
- > Inspection and testing to MSS SP-110

### Material List

| NO. | PARTS NAME        | MATERIAL    | QTY |
|-----|-------------------|-------------|-----|
| 1   | BOLT              | A2-70       | 4   |
| 2   | BONNET            | CF8/CF8M    | 1   |
| 3   | BODY GASKET       | TFM1600     | 1   |
| 4   | BODY              | CF8/CF8M    | 1   |
| 5   | BALL              | SS304/SS316 | 1   |
| 6   | SEAT              | TFM1600     | 1   |
| 7   | SPRING WASHER     | SS          | 1   |
| 8   | NUT               | A2-70       | 4   |
| 9   | ANTISTATIC DEVICE | SS          | 1   |
| 10  | STEM              | SS304/SS316 | 1   |
| 11  | THRUST WASHER     | PTFE        | 1   |
| 12  | O-RING            | VITON       | 1   |
| 13  | PACKING           | TFM1600     | 3   |
| 14  | PACKING GLAND     | SS          | 1   |
| 15  | BOLT              | A2-70       | 2   |
| 16  | NUT               | A2-70       | 2   |



### Dimentional Data

| Size |       | d   | D     | L   | L1 | H    | L2  | H1    |
|------|-------|-----|-------|-----|----|------|-----|-------|
| DN   | In.   |     |       |     |    |      |     |       |
| 15   | 1/2   | 15  | 21.8  | 73  | 10 | 44.5 | 165 | 72.5  |
| 20   | 3/4   | 20  | 27.5  | 80  | 13 | 46   | 165 | 74    |
| 25   | 1     | 25  | 34.7  | 90  | 13 | 56.4 | 196 | 130   |
| 32   | 1 1/4 | 32  | 43    | 110 | 16 | 70.3 | 196 | 140   |
| 40   | 1 1/2 | 38  | 49.5  | 120 | 16 | 79   | 232 | 116.5 |
| 50   | 2     | 50  | 61.5  | 140 | 18 | 86.7 | 232 | 124.2 |
| 65   | 2 1/2 | 64  | 77    | 185 | 18 | 114  | 300 | 184   |
| 80   | 3     | 74  | 90    | 205 | 20 | 121  | 300 | 191   |
| 100  | 4     | 100 | 115.2 | 240 | 20 | 140  | 400 | 232   |

### Valve Operator

Lever operation

- Pneumatic or electric actuators available.
- Limit switches, positioners, solenoid valves and many other customer options available.
- Contact FLOWX for appropriate choice and sizing of valve actuators.

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## Socket Welding Ball Valves

### Features of Actuators

- Heavy duty Rack and pinion design
- Spring return or double acting
- Open and closed adjustment stops
- True NAMUR accessory and ISO mounting
- Visual indicator, Top Mount indicator
- High temperature and corrosion resistant models available
- Solenoids, limit switches, positioners and other accessories are available
- Fully adjustable limit switches allow for fine control of on-off positions
- All electric actuators are available for modulating (4-20mA control) or on-off service
- Motor has thermal overload protection
- Running Time: 9s/13s/15s/30s/50s/100s/150s
- Heavy-duty gear train motor with permanent lubrication
- ISO bottom mounting for direct mount actuation with true ISO valves on most models



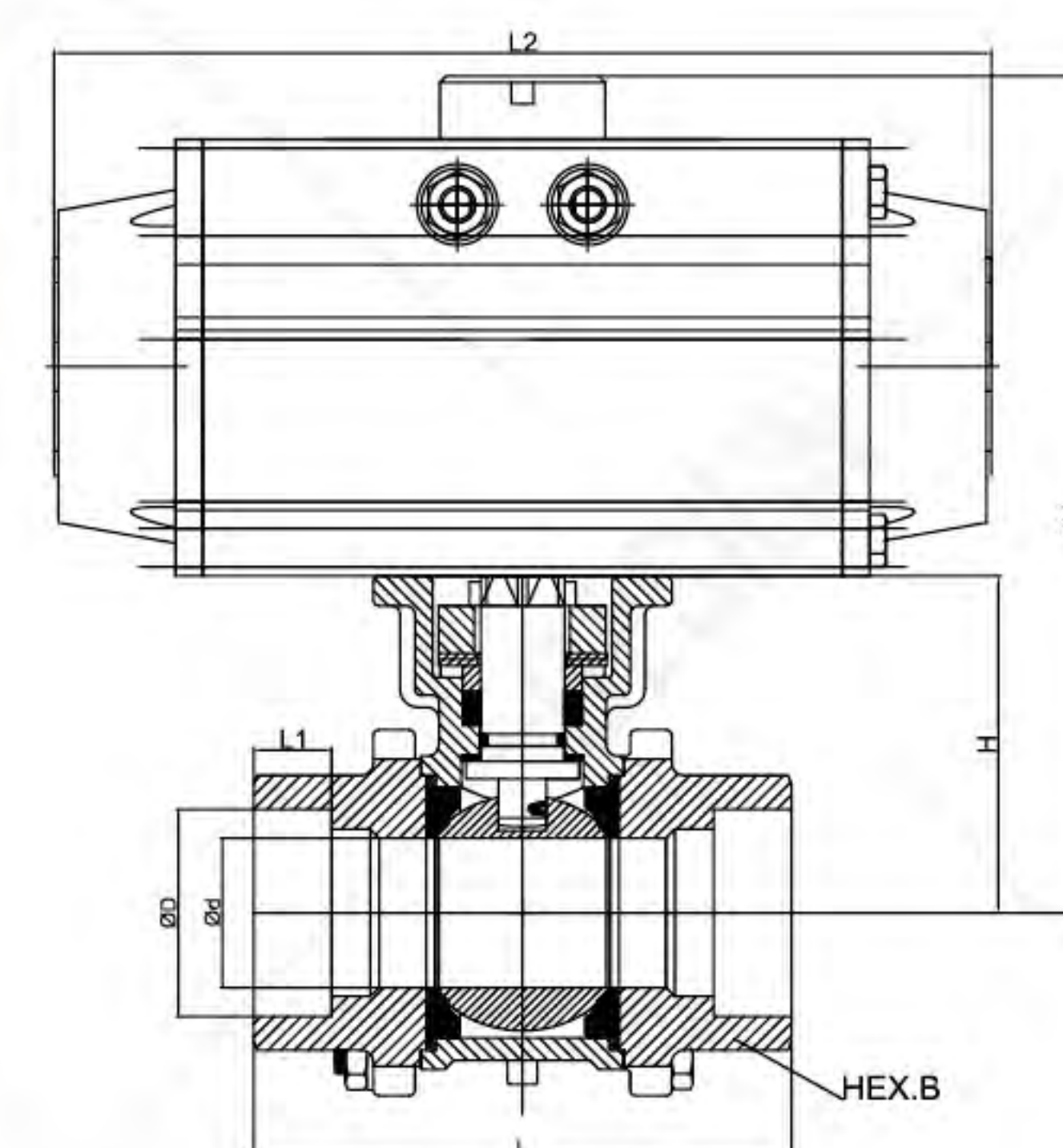
*Pneumatically Operated*



*Electrically Operated*

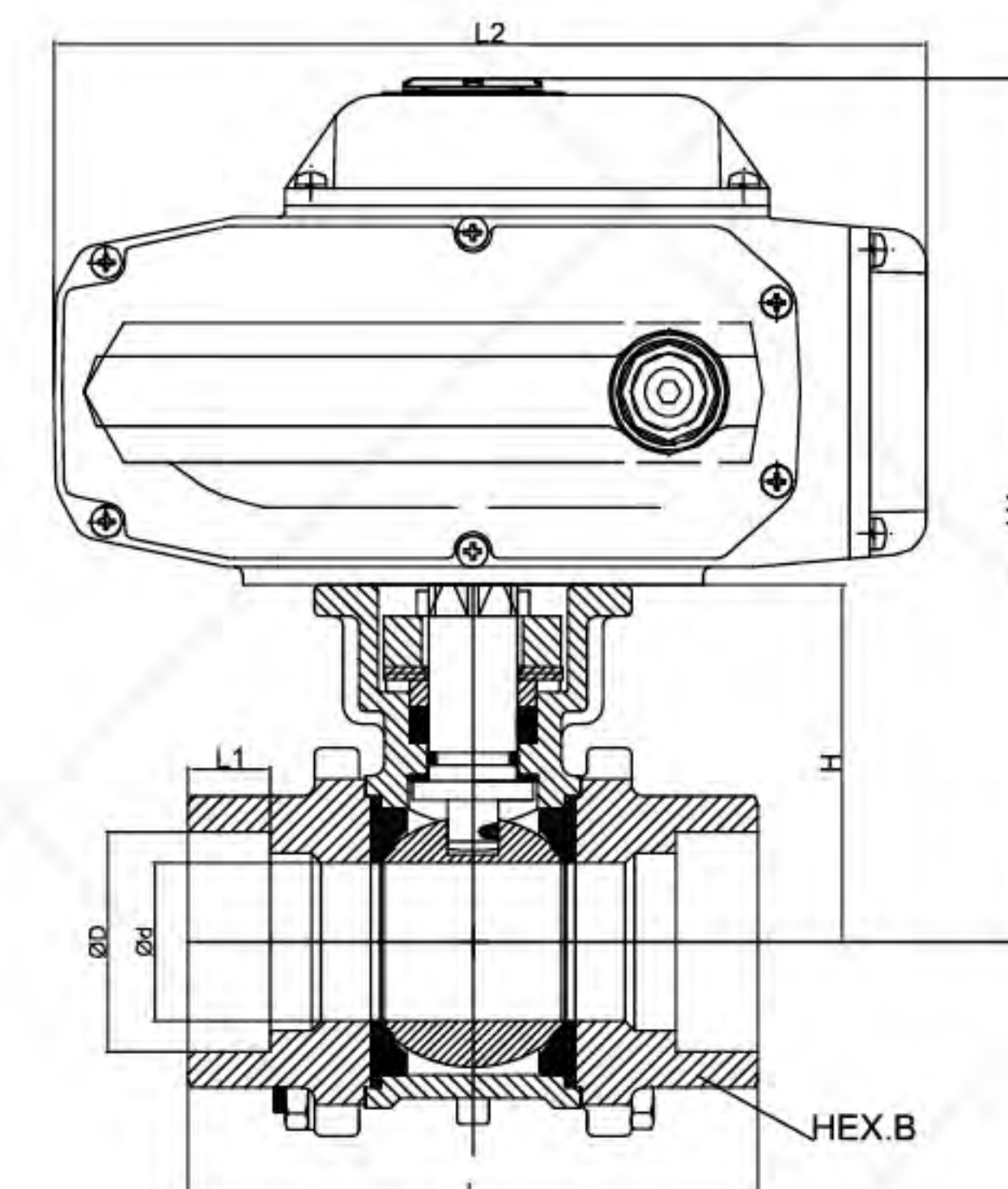
### Dimentional Data

| Size |       | d   | D     | L   | L1 | H    | SR    |       | DA    |       |
|------|-------|-----|-------|-----|----|------|-------|-------|-------|-------|
| DN   | In.   |     |       |     |    |      | H1    | L1    | H1    | L1    |
| 15   | 1/2   | 15  | 21.8  | 73  | 10 | 44.5 | 135   | 162   | 124   | 139.5 |
| 20   | 3/4   | 20  | 27.5  | 80  | 13 | 46   | 153   | 207   | 136.5 | 162   |
| 25   | 1     | 25  | 34.7  | 90  | 13 | 56.4 | 163.4 | 207   | 146.9 | 162   |
| 32   | 1 1/4 | 32  | 43    | 110 | 16 | 70.3 | 177.3 | 207   | 160.8 | 162   |
| 40   | 1 1/2 | 38  | 49.5  | 120 | 16 | 79   | 197.5 | 237.5 | 186   | 207   |
| 50   | 2     | 50  | 61.5  | 140 | 18 | 86.7 | 218.2 | 271.5 | 215.2 | 237.5 |
| 65   | 2 1/2 | 64  | 77    | 185 | 18 | 114  | 275.5 | 328   | 245.5 | 271.5 |
| 80   | 3     | 74  | 90    | 205 | 20 | 121  | 294.5 | 366   | 282.5 | 328   |
| 100  | 4     | 100 | 115.2 | 240 | 20 | 140  | 336   | 428   | 313.5 | 366   |



### Dimentional Data

| Size |       | d   | D     | L   | L1 | H    | L2    | H1    |
|------|-------|-----|-------|-----|----|------|-------|-------|
| DN   | In.   |     |       |     |    |      |       |       |
| 15   | 1/2   | 15  | 21.8  | 73  | 10 | 44.5 | 165   | 182   |
| 20   | 3/4   | 20  | 27.5  | 80  | 13 | 46   | 165   | 183.5 |
| 25   | 1     | 25  | 34.7  | 90  | 13 | 56.4 | 165   | 193.9 |
| 32   | 1 1/4 | 32  | 43    | 110 | 16 | 70.3 | 165   | 207.8 |
| 40   | 1 1/2 | 38  | 49.5  | 120 | 16 | 79   | 211.5 | 247.5 |
| 50   | 2     | 50  | 61.5  | 140 | 18 | 86.7 | 211.5 | 255.2 |
| 65   | 2 1/2 | 64  | 77    | 185 | 18 | 114  | 295   | 317   |
| 80   | 3     | 74  | 90    | 205 | 20 | 121  | 295   | 324   |
| 100  | 4     | 100 | 115.2 | 240 | 20 | 140  | 295   | 343   |



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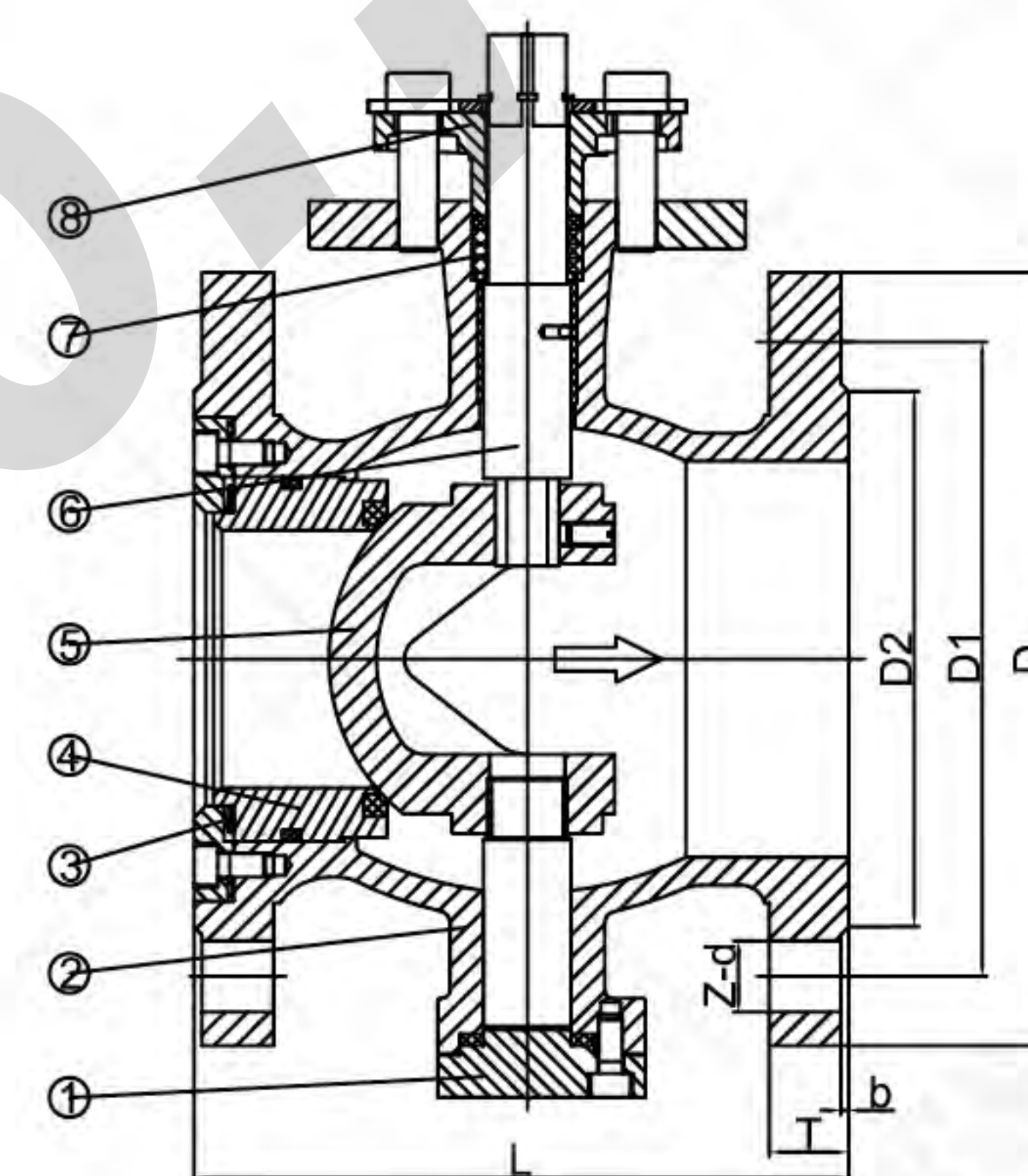
## V-Type Flanged Ball Valves

### Features

- > 1/2" through 8"
- > wafer or flange connection
- > 150LB working pressure
- > Temperature rating varies from with o-ring material
- > With characterized V-ports, slotted ports or custom ports,
- > V-Control Ball Valves provide accurate flow control.
- > Available in 3-Piece and Flanged bodies, V-Control valves offer superior rangeability, repeatability and high flow capacity.
- > Designed for easy automation
- > Ideal control element in process piping systems.
- > Inspection and testing meet API598

### Material List

| NO. | PARTS NAME   | MATERIAL            | QTY |
|-----|--------------|---------------------|-----|
| 1   | GLAND        | WCB/CF8/CF8M        | 1   |
| 2   | BODY         | WCB/CF8/CF8M        | 1   |
| 3   | SEAL         | FPM                 | 2   |
| 4   | SEAT         | SS304+STL/SS316+STL | 1   |
| 5   | BALL         | CF8+STL/CF8M/STL    | 1   |
| 6   | STEM         | SS304/SS316         | 1   |
| 7   | PACKING      | PTFE                | 1   |
| 8   | PACKING RING | WCB/CF8/CF8M        | 1   |



### Dimentional Data

| Size |     | D   | D1    | D2    | L1 | d    | T  | f | L   |
|------|-----|-----|-------|-------|----|------|----|---|-----|
| DN   | In. |     |       |       |    |      |    |   |     |
| 25   | 1   | 110 | 79.4  | 50.8  | 4  | 15.9 | 16 | 2 | 102 |
| 32   | 1¼  | 115 | 88.9  | 63.5  | 4  | 15.9 | 18 | 2 | 102 |
| 40   | 1½  | 125 | 98.4  | 73    | 4  | 15.9 | 18 | 2 | 114 |
| 50   | 2   | 150 | 120.7 | 92.1  | 4  | 19.1 | 18 | 2 | 124 |
| 65   | 2½  | 180 | 139.7 | 104.8 | 4  | 19.1 | 19 | 2 | 145 |
| 80   | 3   | 190 | 152.4 | 127   | 4  | 19.1 | 20 | 2 | 165 |
| 100  | 4   | 230 | 190.5 | 157.2 | 8  | 19.1 | 20 | 2 | 194 |
| 125  | 5   | 255 | 215.9 | 185.7 | 8  | 22.2 | 22 | 2 | 194 |
| 150  | 6   | 280 | 241.3 | 215.9 | 8  | 22.2 | 24 | 2 | 229 |
| 200  | 8   | 345 | 298.5 | 269.9 | 8  | 22.2 | 26 | 2 | 243 |

### Valve Operator

Lever operation

- Pneumatic or electric actuators available.
- Limit switches, positioners, solenoid valves and many other customer options available.
- Contact FLOWX for appropriate choice and sizing of valve actuators.

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## V-Type Flanged Ball Valves

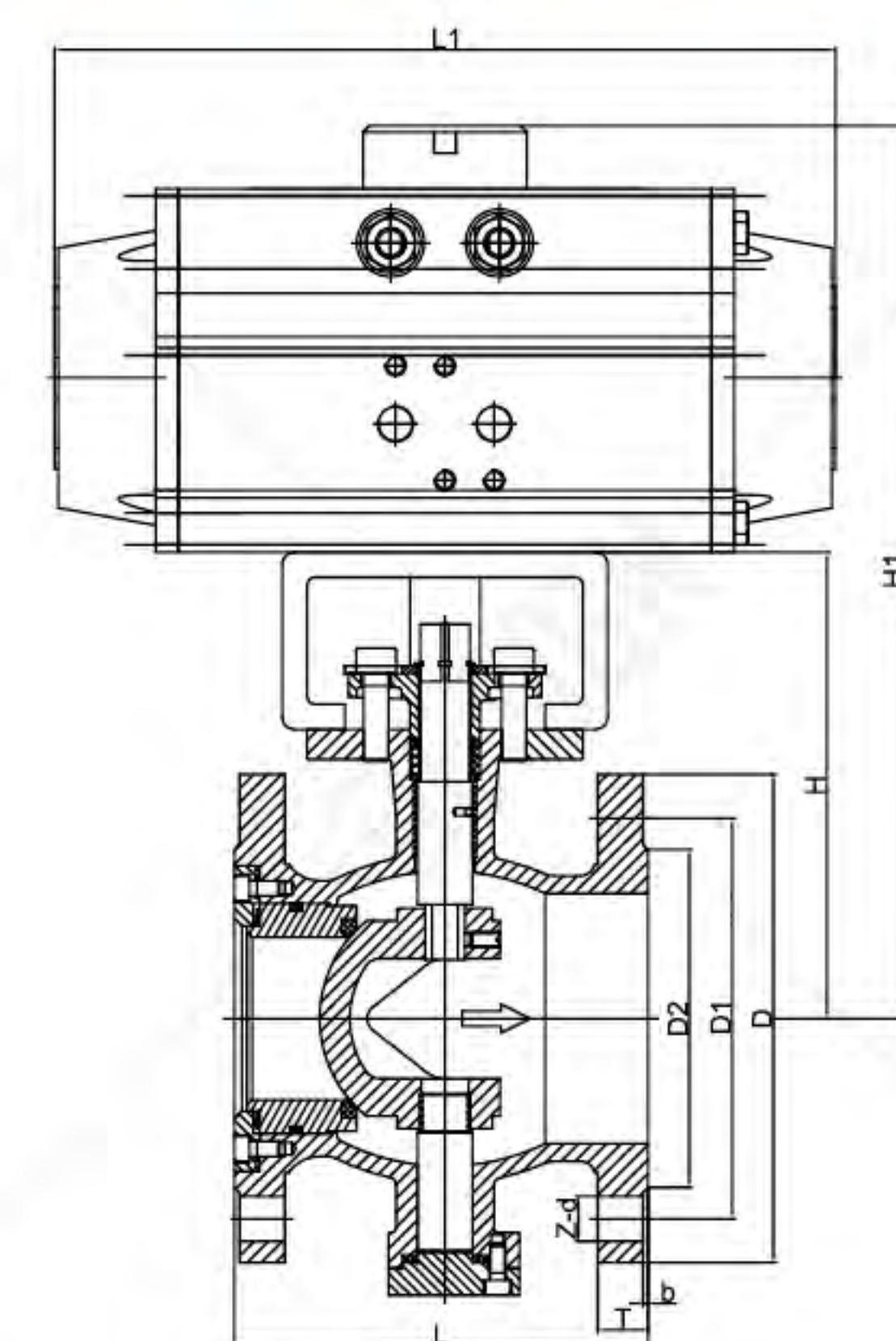
### Features of Actuators

- > Heavy duty Rack and pinion design
- > Spring return or double acting
- > Open and closed adjustment stops
- > True NAMUR accessory and ISO mounting
- > Visual indicator, Top Mount indicator
- > High temperature and corrosion resistant models available
- > Solenoids, limit switches, positioners and other accessories are available
- > Fully adjustable limit switches allow for fine control of on-off positions
- > All electric actuators are available for modulating (4-20mA control) or on-off service
- > Motor has thermal overload protection
- > Running Time: 9s/13s/15s/30s/50s/100s/150s
- > Heavy-duty gear train motor with permanent lubrication
- > ISO bottom mounting for direct mount actuation with true ISO valves on most models



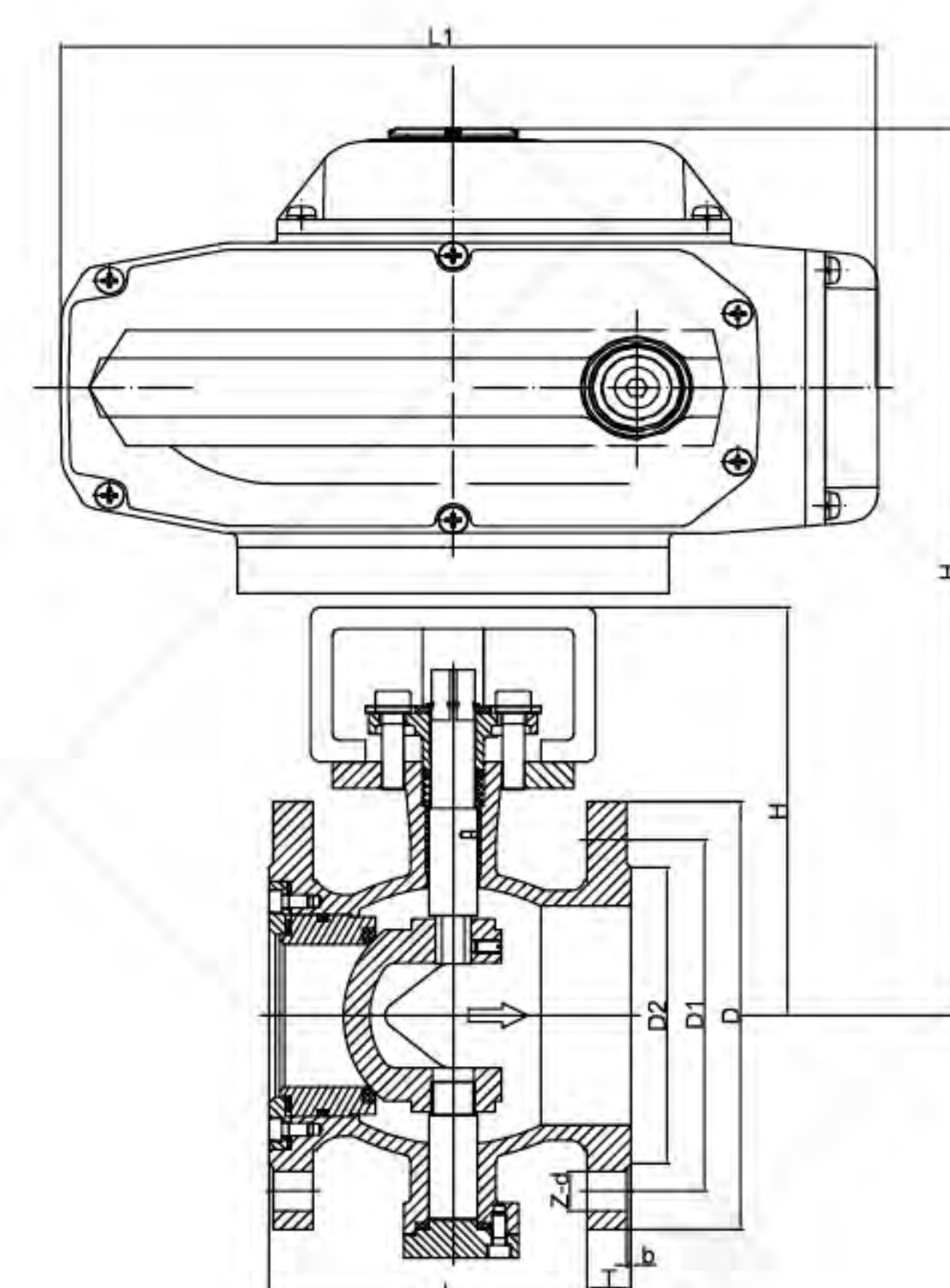
### Dimentional Data

| Size |     | D   | D1    | D2    | Z | d    | T  | f | L   | H   | SR    |       | DA    |       |
|------|-----|-----|-------|-------|---|------|----|---|-----|-----|-------|-------|-------|-------|
| DN   | In. |     |       |       |   |      |    |   |     |     | H1    | L1    | H1    | L1    |
| 25   | 1   | 110 | 79.4  | 50.8  | 4 | 15.9 | 16 | 2 | 102 | 133 | 261.5 | 237.5 | 250   | 207   |
| 32   | 1¼  | 115 | 88.9  | 63.5  | 4 | 15.9 | 18 | 2 | 102 | 138 | 264.5 | 237.5 | 255   | 207   |
| 40   | 1½  | 125 | 98.4  | 73    | 4 | 15.9 | 18 | 2 | 114 | 140 | 281.5 | 271.5 | 268.5 | 237.5 |
| 50   | 2   | 150 | 120.7 | 92.1  | 4 | 19.1 | 19 | 2 | 124 | 150 | 321.5 | 320   | 291.5 | 271.5 |
| 65   | 2½  | 180 | 139.7 | 104.8 | 4 | 19.1 | 20 | 2 | 145 | 165 | 348.5 | 366   | 336.5 | 320   |
| 80   | 3   | 190 | 152.4 | 127   | 4 | 19.1 | 20 | 2 | 165 | 178 | 361.5 | 366   | 349.5 | 320   |
| 100  | 4   | 230 | 190.5 | 157.2 | 8 | 19.1 | 22 | 2 | 194 | 190 | 396   | 428   | 373.5 | 366   |
| 125  | 5   | 255 | 215.9 | 185.7 | 8 | 22.2 | 22 | 2 | 194 | 205 | 427   | 430   | 411   | 428   |
| 150  | 6   | 280 | 241.3 | 215.9 | 8 | 22.2 | 24 | 2 | 229 | 235 | 509   | 532   | 457   | 430   |
| 200  | 8   | 345 | 298.5 | 269.9 | 8 | 22.2 | 26 | 2 | 243 | 265 | 583   | 662   | 539   | 532   |



### Dimentional Data

| Size |     | D   | D1    | D2    | Z | d    | T  | f | L   | H   | L1    | H1    |
|------|-----|-----|-------|-------|---|------|----|---|-----|-----|-------|-------|
| DN   | In. |     |       |       |   |      |    |   |     |     |       |       |
| 25   | 1   | 110 | 79.4  | 50.8  | 4 | 15.9 | 16 | 2 | 102 | 133 | 165   | 270.5 |
| 32   | 1¼  | 115 | 88.9  | 63.5  | 4 | 15.9 | 18 | 2 | 102 | 138 | 211.5 | 306.5 |
| 40   | 1½  | 125 | 98.1  | 73    | 4 | 15.9 | 18 | 2 | 114 | 140 | 211.5 | 282.5 |
| 50   | 2   | 150 | 120.7 | 92.1  | 4 | 19.1 | 19 | 2 | 124 | 150 | 259   | 353   |
| 65   | 2½  | 180 | 139.7 | 104.8 | 4 | 19.1 | 20 | 2 | 145 | 165 | 259   | 368   |
| 80   | 3   | 190 | 152.4 | 127   | 4 | 19.1 | 20 | 2 | 165 | 178 | 259   | 381   |
| 100  | 4   | 230 | 190.5 | 157.2 | 8 | 19.1 | 22 | 2 | 194 | 190 | 259   | 393   |
| 125  | 5   | 255 | 215.9 | 185.7 | 8 | 22.2 | 22 | 2 | 194 | 205 | 259   | 408   |
| 150  | 6   | 280 | 241.3 | 215.9 | 8 | 22.2 | 24 | 2 | 229 | 235 | 259   | 438   |
| 200  | 8   | 345 | 298.5 | 269.9 | 8 | 22.2 | 26 | 2 | 243 | 265 | 283.5 | 495   |



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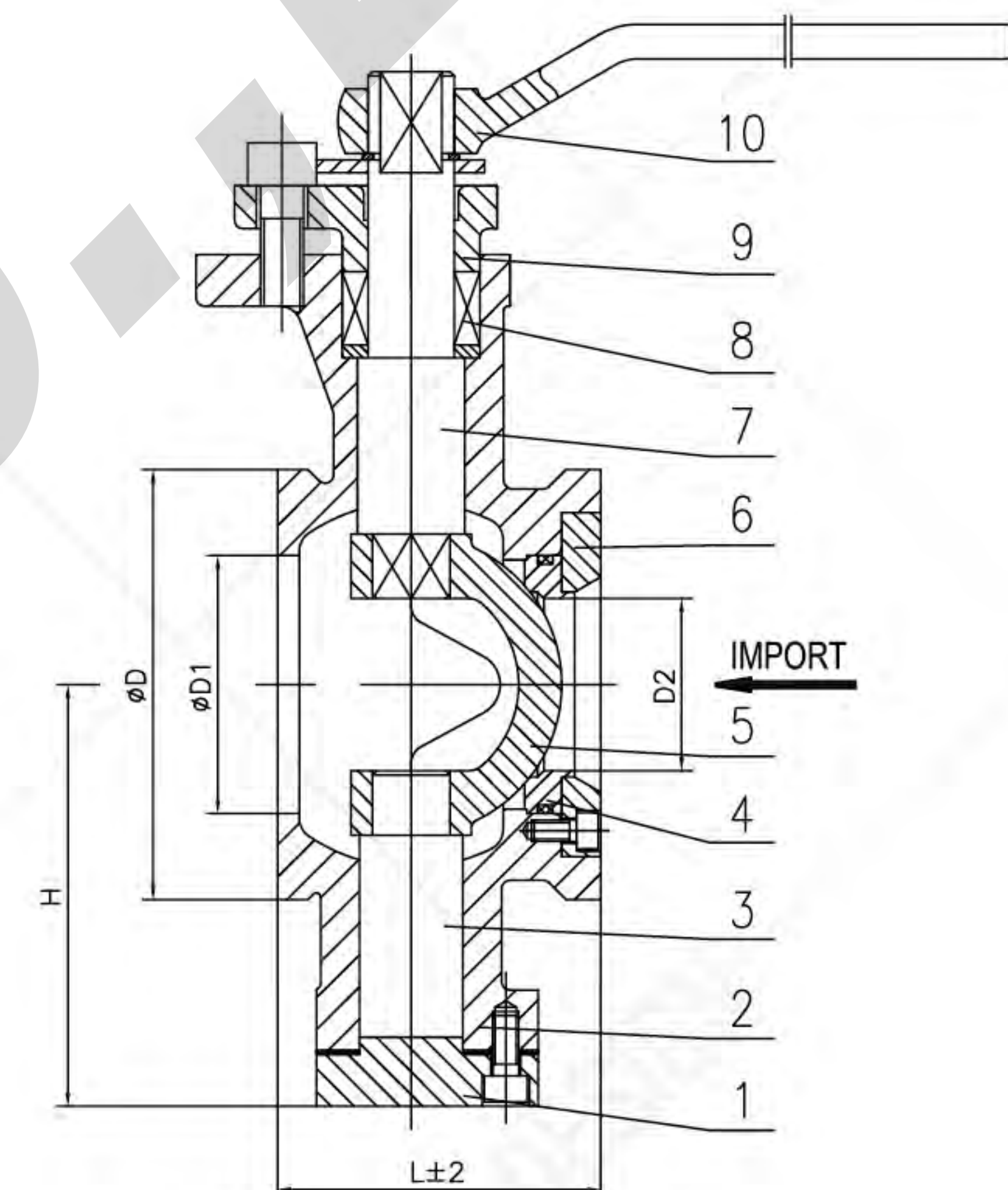
## V-type Wafer Type Ball Valves

### Features

- > 1/2" through 10"
- > wafer or flange connection
- > PN16 working pressure
- > Temperature rating varies from with o-ring material
- > With characterized V-ports, slotted ports or custom ports,
- > V-Control Ball Valves provide accurate flow control.
- > Available in 3-Piece and Flanged bodies, V-Control valves offer
- > superior rangeability, repeatability and high flow capacity.
- > Designed for easy automation
- > Ideal control element in process piping systems.
- > Inspection and testing meet GB/T13927

### Material List

| NO. | PARTS NAME    | MATERIAL                     |
|-----|---------------|------------------------------|
| 1   | COVER         | WCB/CF8/CF8M                 |
| 2   | BODY          | WCB/CF8/CF8M                 |
| 3   | LOWER STEM    | 20Cr13                       |
| 4   | SEAT          | A105+STL/SS304+STL316+STL    |
| 5   | BALL          | CF8+NITRIDING/CF8M+NITRIDING |
| 6   | STEM AND CAP  | A105/SS304/SS316             |
| 7   | UPPER STEM    | 20Cr13                       |
| 8   | PACKING       | PTFE                         |
| 9   | PACKING GLAND | WCB/CF8/CF8M                 |
| 10  | HANDLE        | WCB                          |



### Dimentional Data

| Size |     | L   | D   | D1  | D2  | H   |
|------|-----|-----|-----|-----|-----|-----|
| DN   | In. |     |     |     |     |     |
| 25   | 1   | 50  | 66  | 35  | 20  | 73  |
| 32   | 1¼  | 60  | 81  | 48  | 30  | 85  |
| 40   | 1½  | 60  | 81  | 48  | 30  | 85  |
| 50   | 2   | 75  | 100 | 59  | 38  | 99  |
| 65   | 2½  | 85  | 120 | 72  | 50  | 113 |
| 80   | 3   | 100 | 132 | 105 | 60  | 127 |
| 100  | 4   | 115 | 158 | 125 | 72  | 137 |
| 125  | 5   | 135 | 183 | 150 | 92  | 155 |
| 150  | 6   | 160 | 216 | 170 | 115 | 172 |
| 200  | 8   | 200 | 268 | 210 | 145 | 198 |
| 250  | 10  | 240 | 323 | 258 | 200 | 231 |

### Valve Operator

Lever operation

- Pneumatic or electric actuators available.
- Limit switches, positioners, solenoid valves and many other customer options available.
- Contact FLOWX for appropriate choice and sizing of valve actuators.

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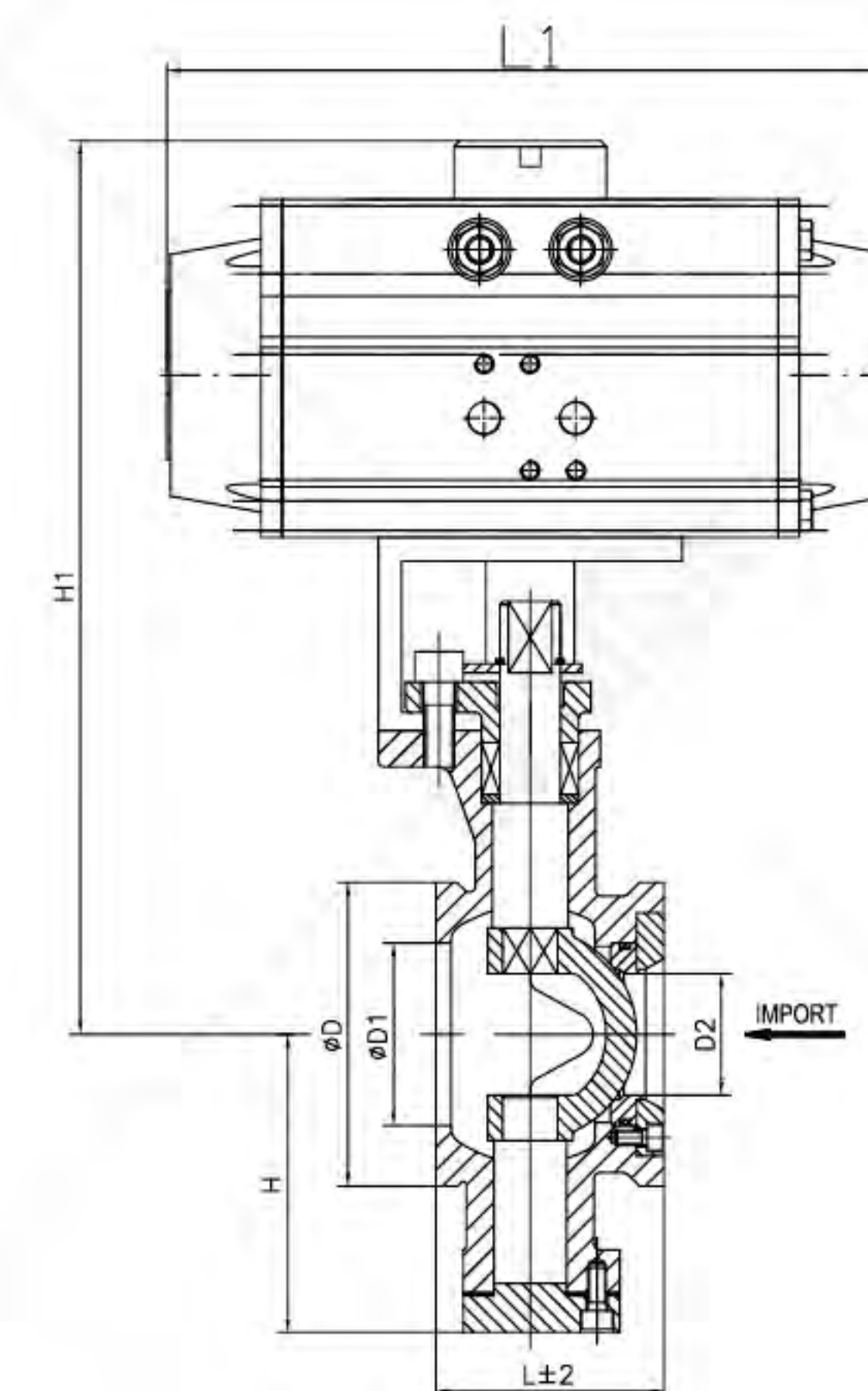
## V-type Wafer Type Ball Valves

### ■ Features of Actuators

- Heavy duty Rack and pinion design
- Spring return or double acting
- Open and closed adjustment stops
- True NAMUR accessory and ISO mounting
- Visual indicator, Top Mount indicator
- High temperature and corrosion resistant models available
- Solenoids, limit switches, positioners and other accessories are available
- Fully adjustable limit switches allow for fine control of on-off positions
- All electric actuators are available for modulating (4-20mA control) or on-off service
- Motor has thermal overload protection
- Running Time: 9s/13s/15s/30s/50s/100s/150s
- Heavy-duty gear train motor with permanent lubrication
- ISO bottom mounting for direct mount actuation with true ISO valves on most models

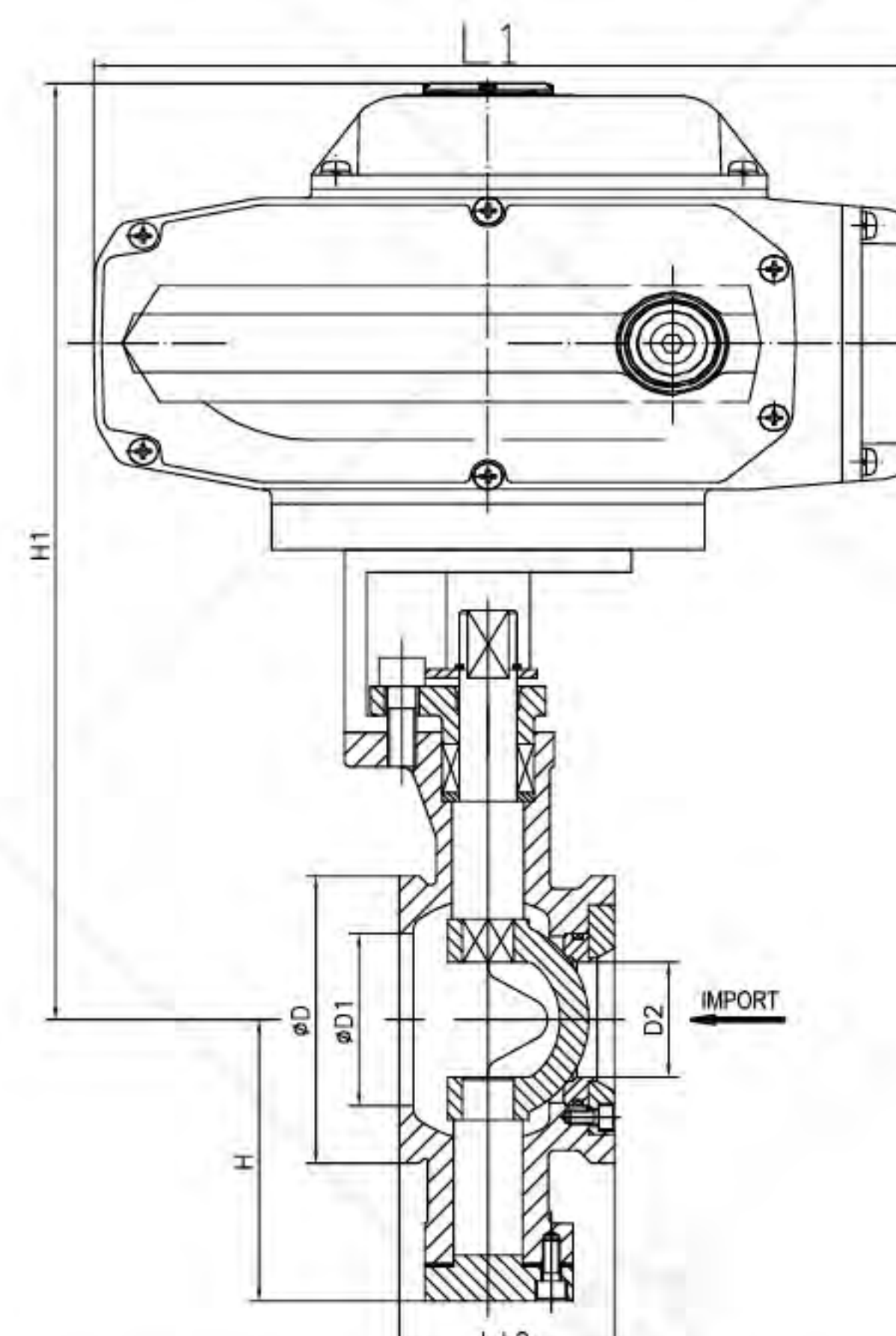
### ■ Dimentional Data

| Size |     | L   | D   | D1  | D2  | H   | SR    |       | DA    |       |
|------|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| DN   | In. |     |     |     |     |     | H1    | L1    | H1    | L1    |
| 25   | 1   | 50  | 66  | 35  | 20  | 73  | 257   | 207   | 240.5 | 162   |
| 32   | 1¼  | 60  | 81  | 48  | 30  | 85  | 289.5 | 237.5 | 278   | 207   |
| 40   | 1½  | 60  | 81  | 48  | 30  | 85  | 289.5 | 237.5 | 278   | 207   |
| 50   | 2   | 75  | 100 | 59  | 38  | 99  | 321.5 | 271.5 | 308.5 | 237.5 |
| 65   | 2½  | 85  | 120 | 72  | 50  | 113 | 367.5 | 328   | 337.5 | 271.5 |
| 80   | 3   | 100 | 132 | 105 | 60  | 127 | 402.5 | 366   | 390.5 | 328   |
| 100  | 4   | 115 | 158 | 125 | 72  | 137 | 444   | 428   | 421.5 | 366   |
| 125  | 5   | 135 | 183 | 150 | 82  | 155 | 538   | 482   | 508   | 430   |
| 150  | 6   | 160 | 216 | 170 | 115 | 172 | 575   | 532   | 553   | 482   |
| 200  | 8   | 200 | 268 | 210 | 145 | 198 | 649   | 662   | 605   | 532   |



### ■ Dimentional Data

| Size |     | L   | D   | D1  | D2  | H   | L1    | H1    |
|------|-----|-----|-----|-----|-----|-----|-------|-------|
| DN   | In. |     |     |     |     |     |       |       |
| 25   | 1   | 50  | 66  | 35  | 20  | 73  | 165   | 277.5 |
| 32   | 1¼  | 60  | 81  | 48  | 30  | 85  | 165   | 298.5 |
| 40   | 1½  | 60  | 81  | 48  | 30  | 85  | 165   | 298.5 |
| 50   | 2   | 75  | 100 | 59  | 38  | 99  | 211.5 | 348.5 |
| 65   | 2½  | 85  | 120 | 72  | 50  | 113 | 259   | 399   |
| 80   | 3   | 100 | 132 | 105 | 60  | 127 | 259   | 422   |
| 100  | 4   | 115 | 158 | 125 | 72  | 137 | 259   | 441   |
| 125  | 5   | 135 | 183 | 150 | 92  | 155 | 259   | 489   |
| 150  | 6   | 160 | 216 | 170 | 115 | 172 | 283.5 | 530.5 |
| 200  | 8   | 200 | 268 | 210 | 145 | 198 | 283.5 | 560.5 |



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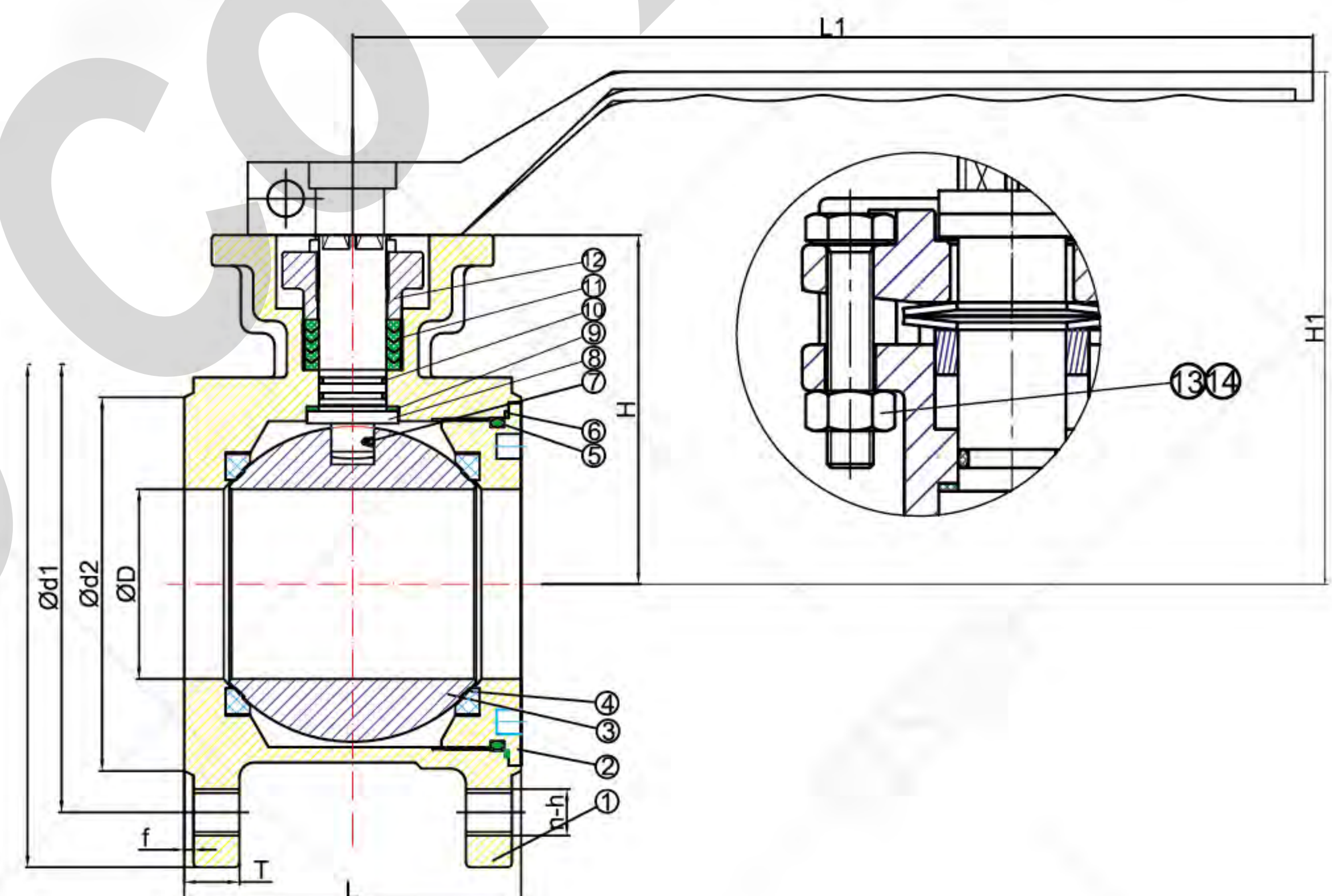
## Thin Type Ball Valves

### Features

- > Full port stainless ball valve
- > 1/2" through 4"
- > Antistatic device
- > Blowout-proof stem
- > PN16 working pressure
- > Temperature rating varies from with o-ring material
- > API 607 fire safe tested and certified
- > Inspection and testing to current API598, API 6D

### Material List

| NO. | PARTS NAME    | MATERIAL      | QTY |
|-----|---------------|---------------|-----|
| 1   | BODY          | 1.4308/1.4408 | 1   |
| 2   | BONNET        | SS304/SS316   | 1   |
| 3   | BALL          | SS304/SS316   | 1   |
| 4   | SEAT          | TFM1600       | 1   |
| 5   | O-RING        | VITON         | 1   |
| 6   | SEAT          | PTFE          | 1   |
| 7   | ESD           | SS            | 1   |
| 8   | STEM          | SS304/SS316   | 1   |
| 9   | THRUST WASHER | RPTFE         | 1   |
| 10  | O-RING        | VITON         | 2   |
| 11  | PACKING       | TFM1600       | 3   |
| 12  | PACKING RING  | SS            | 1   |
| 13  | NUT           | A2-70         | 2   |
| 14  | BOLT          | A2-70         | 2   |



### Dimentional Data

| Size |       | D   | d   | d1  | d2  | n | h   | T  | f | L   | H   | L1  | H1    | WT (kg) |
|------|-------|-----|-----|-----|-----|---|-----|----|---|-----|-----|-----|-------|---------|
| DN   | In.   |     |     |     |     |   |     |    |   |     |     |     |       |         |
| 15   | 1/2   | 15  | 95  | 65  | 45  | 4 | M12 | 14 | 2 | 44  | 62  | 165 | 90    | 2.5     |
| 20   | 3/4   | 20  | 105 | 75  | 58  | 4 | M12 | 16 | 2 | 44  | 62  | 165 | 90    | 3.2     |
| 25   | 1     | 25  | 115 | 85  | 68  | 4 | M12 | 16 | 2 | 50  | 68  | 196 | 98    | 4.1     |
| 32   | 1 1/4 | 32  | 140 | 100 | 78  | 4 | M16 | 18 | 2 | 60  | 79  | 196 | 109   | 5.8     |
| 40   | 1 1/2 | 38  | 150 | 110 | 88  | 4 | M16 | 18 | 3 | 65  | 86  | 232 | 123.5 | 7.6     |
| 50   | 2     | 49  | 165 | 125 | 102 | 4 | M16 | 20 | 3 | 80  | 87  | 232 | 124.5 | 9.7     |
| 65   | 2 1/2 | 62  | 185 | 145 | 122 | 4 | M16 | 18 | 3 | 110 | 114 | 300 | 184   | 14.5    |
| 80   | 3     | 74  | 200 | 160 | 138 | 8 | M16 | 20 | 3 | 120 | 134 | 300 | 204   | 17.1    |
| 100  | 4     | 100 | 220 | 180 | 158 | 8 | M16 | 20 | 3 | 152 | 146 | 400 | 238   | 23.4    |

### Valve Operator

Lever operation

- Pneumatic or electric actuators available.
- Limit switches, positioners, solenoid valves and many other customer options available.
- Contact FLOWX for appropriate choice and sizing of valve actuators.

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## Thin Type Ball Valves

### ■ Features of Actuators

- Heavy duty Rack and pinion design
- Spring return or double acting
- Open and closed adjustment stops
- True NAMUR accessory and ISO mounting
- Visual indicator, Top Mount indicator
- High temperature and corrosion resistant models available
- Solenoids, limit switches, positioners and other accessories are available
- Fully adjustable limit switches allow for fine control of on-off positions
- All electric actuators are available for modulating (4-20mA control) or on-off service
- Motor has thermal overload protection
- Running Time: 9s/13s/15s/30s/50s/100s/150s
- Heavy-duty gear train motor with permanent lubrication
- ISO bottom mounting for direct mount actuation with true ISO valves on most models



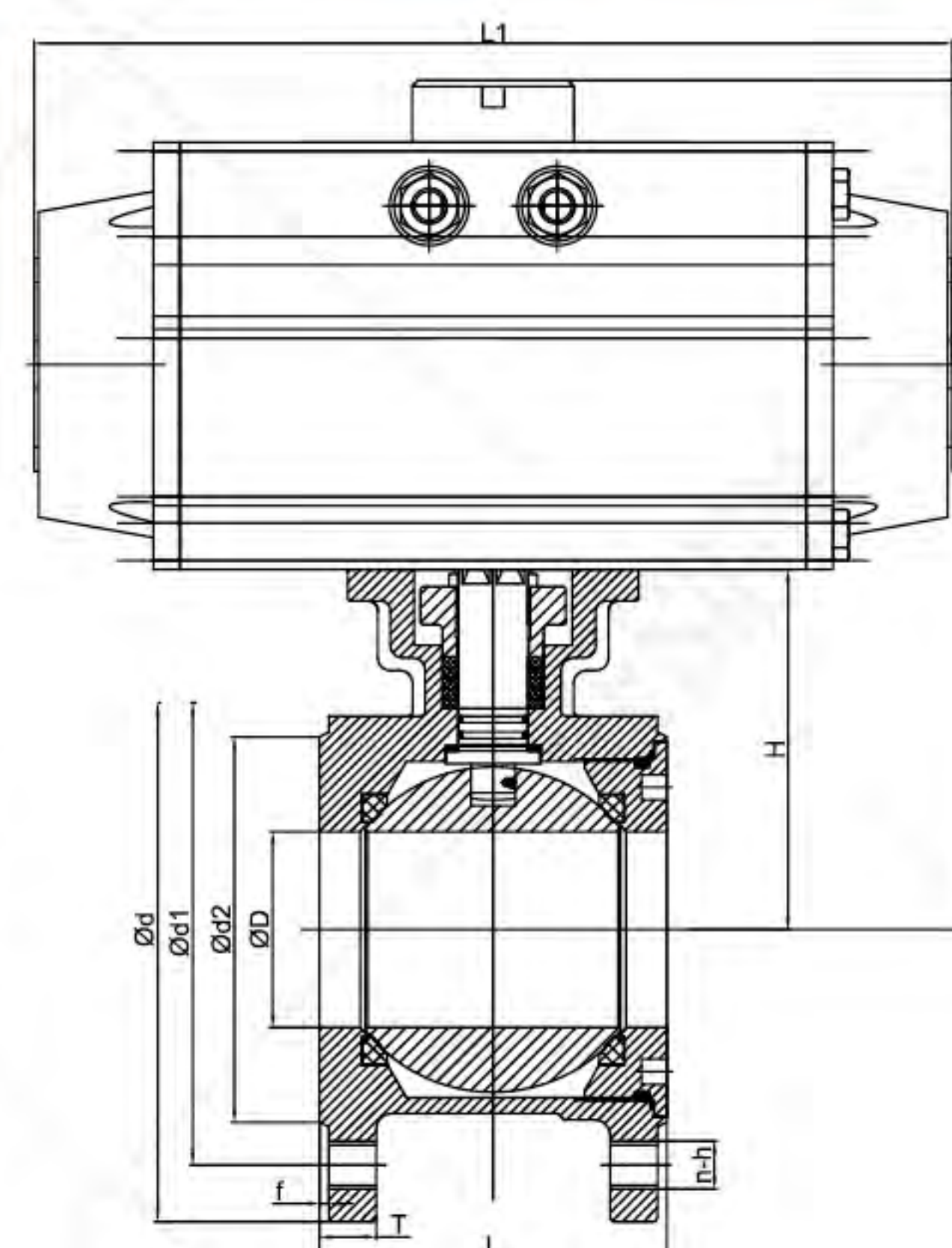
*Pneumatically Operated*



*Electrically Operated*

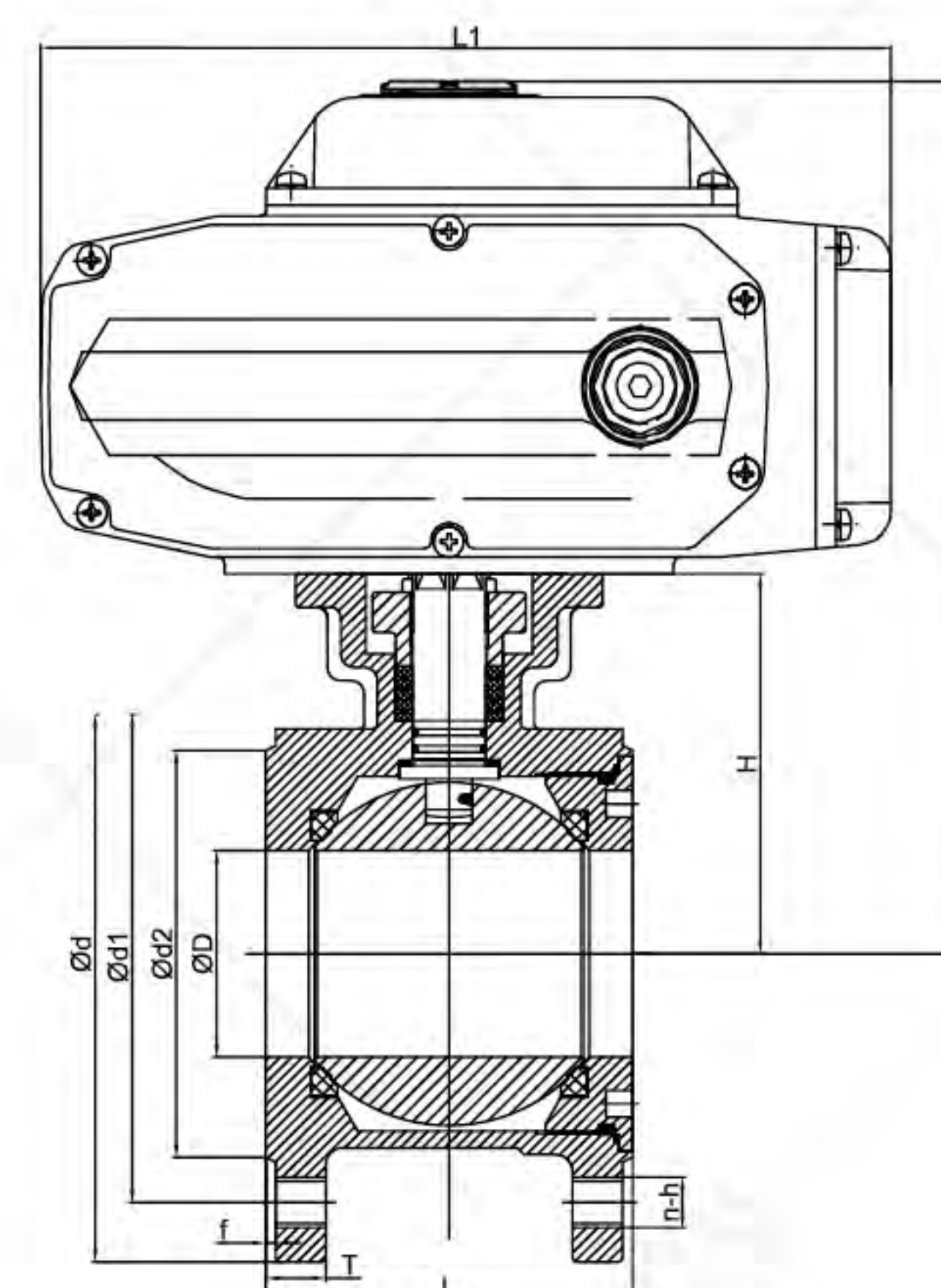
### ■ Dimentional Data

| Size |     | D   | d   | d1  | d2  | n | h   | T  | f | L   | H   | SR    |       | DA    |       |
|------|-----|-----|-----|-----|-----|---|-----|----|---|-----|-----|-------|-------|-------|-------|
| DN   | In. |     |     |     |     |   |     |    |   |     |     | H1    | L1    | H1    | L1    |
| 15   | ½   | 15  | 95  | 65  | 45  | 4 | M12 | 14 | 2 | 44  | 62  | 162.5 | 162   | 151.5 | 139.5 |
| 20   | ¾   | 20  | 105 | 75  | 58  | 4 | M12 | 16 | 2 | 44  | 62  | 179   | 207   | 162.5 | 162   |
| 25   | 1   | 25  | 115 | 85  | 68  | 4 | M12 | 16 | 2 | 50  | 68  | 185   | 207   | 168.5 | 162   |
| 32   | 1¼  | 32  | 140 | 100 | 78  | 4 | M16 | 18 | 2 | 60  | 79  | 196   | 207   | 179.5 | 162   |
| 40   | 1½  | 38  | 150 | 110 | 88  | 4 | M16 | 18 | 3 | 65  | 86  | 214.5 | 237.5 | 203   | 207   |
| 50   | 2   | 49  | 165 | 125 | 102 | 4 | M16 | 20 | 3 | 80  | 87  | 228.5 | 271.5 | 215   | 237.5 |
| 65   | 2½  | 62  | 185 | 145 | 122 | 4 | M16 | 18 | 3 | 110 | 114 | 285.5 | 328   | 255.5 | 271.5 |
| 80   | 3   | 74  | 200 | 160 | 138 | 8 | M16 | 20 | 3 | 120 | 134 | 317.5 | 366   | 305.5 | 328   |
| 100  | 4   | 100 | 220 | 180 | 158 | 8 | M16 | 20 | 3 | 152 | 146 | 352   | 428   | 329.5 | 366   |



### ■ Dimentional Data

| Size |     | D   | d   | d1  | d2  | n | h   | T  | f | L   | H   | H1    | L1    |
|------|-----|-----|-----|-----|-----|---|-----|----|---|-----|-----|-------|-------|
| DN   | In. |     |     |     |     |   |     |    |   |     |     |       |       |
| 15   | ½   | 15  | 95  | 65  | 45  | 4 | M12 | 14 | 2 | 44  | 62  | 199.5 | 165   |
| 20   | ¾   | 20  | 105 | 75  | 58  | 4 | M12 | 16 | 2 | 44  | 62  | 199.5 | 165   |
| 25   | 1   | 25  | 115 | 85  | 68  | 4 | M12 | 16 | 2 | 50  | 68  | 205.5 | 165   |
| 32   | 1¼  | 32  | 140 | 100 | 78  | 4 | M16 | 18 | 2 | 60  | 79  | 216.5 | 165   |
| 40   | 1½  | 38  | 150 | 110 | 88  | 4 | M16 | 18 | 3 | 65  | 86  | 254.5 | 211.5 |
| 50   | 2   | 49  | 165 | 125 | 102 | 4 | M16 | 20 | 3 | 80  | 87  | 255.5 | 211.5 |
| 65   | 2½  | 62  | 185 | 145 | 122 | 4 | M16 | 18 | 3 | 110 | 114 | 317   | 259   |
| 80   | 3   | 74  | 200 | 160 | 138 | 8 | M16 | 20 | 3 | 120 | 134 | 337   | 259   |
| 100  | 4   | 100 | 220 | 180 | 158 | 8 | M16 | 20 | 3 | 152 | 146 | 349   | 259   |



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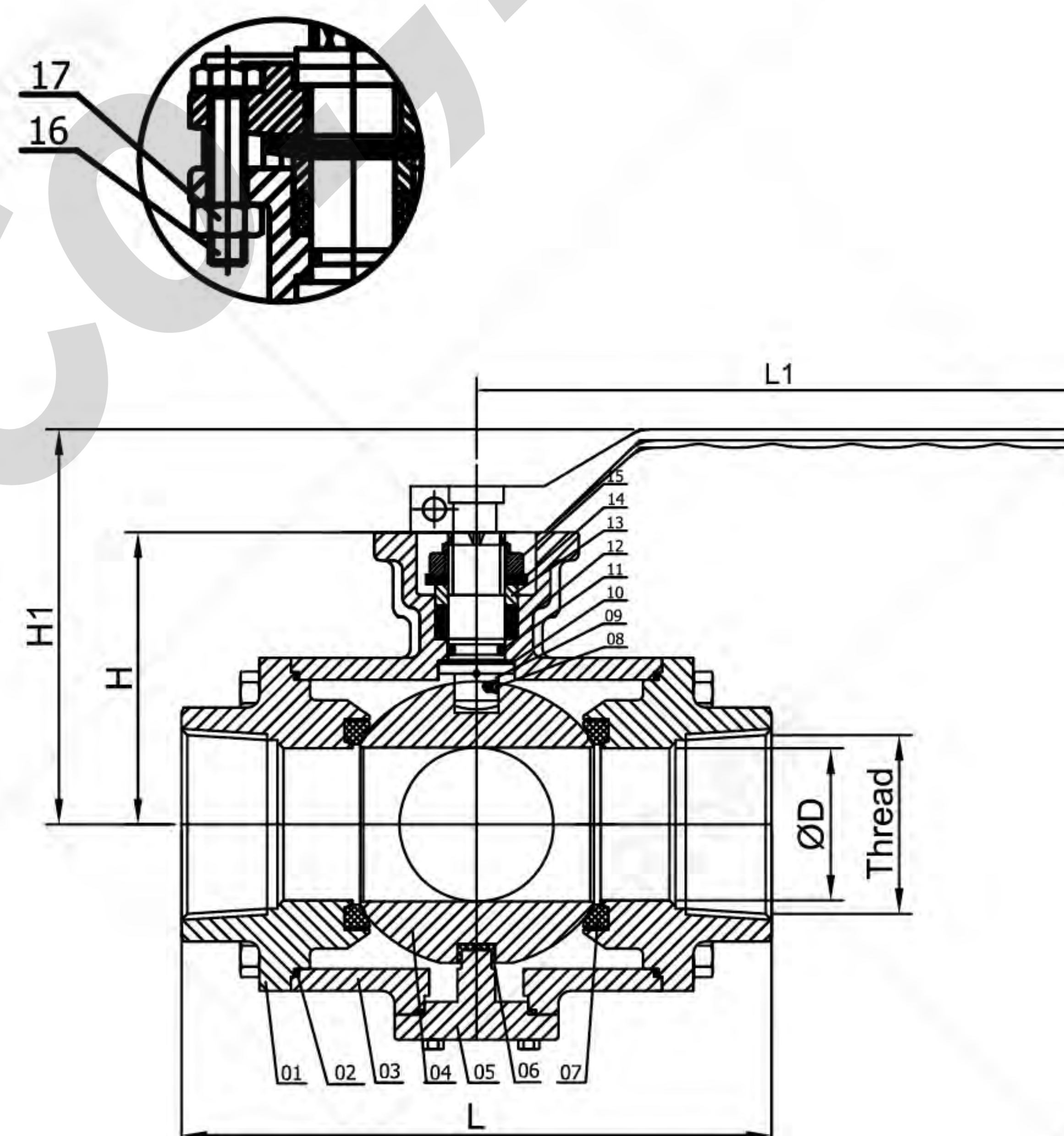
## 3-Way Thread Ball Valves

### Features

- > L-Port or T-Port Configurations
- > Threaded End Connections
- > 1/2" through 4"
- > Electric and Pneumatic Actuators
- > 4-Seat Design for high cycling
- > Cost-efficient Actuators
- > Secure True ISO Mounting Pad
- > Most models are direct mount for lowest possible stack up height
- > Ported 3 way ball valves offering excellent versatility for mixing and diverting applications.

### Material List

| NO. | PARTS NAME        | MATERIAL |          |          |
|-----|-------------------|----------|----------|----------|
| 1   | BONNET            | WCB      | CF8      | CF8M     |
| 2   | SEAT              | TFM1600  |          |          |
| 3   | BODY              | WCB      | CF8      | CF8M     |
| 4   | BALL              | SS304    | SS304    | SS316    |
| 5   | FIXED SEAT        | SS304    | SS304    | SS316    |
| 6   | WEAR-PROOF CASING | PTFE     |          |          |
| 7   | SEAT              | TFM1600  |          |          |
| 8   | ESD               | SS       |          |          |
| 9   | STEM              | SS316    |          |          |
| 10  | THRUST WASHER     | RTFE     |          |          |
| 11  | O-RING            | VITON    |          |          |
| 12  | PACKING           | TFM1600  |          |          |
| 13  | PACKING RING      | SS       |          |          |
| 14  | DISC SPRING       | SS       |          |          |
| 15  | PACKING GLAND     | WCB      | SS       | SS       |
| 16  | BOLT              | A 193 B7 | A 193 B8 | A 193 B8 |
| 17  | NUT               | A 194 2H | A 194 8  | A 194 8  |



### Dimentional Data

| Size |       | PN | ΦD  | L   | H     | L1  | H1    | THREAD                         |
|------|-------|----|-----|-----|-------|-----|-------|--------------------------------|
| DN   | In.   |    |     |     |       |     |       |                                |
| 15   | 1/2   | 16 | 15  | 120 | 64.5  | 165 | 92.5  | NPT<br>BSP<br>PT<br>DIN<br>etc |
| 20   | 3/4   | 16 | 20  | 120 | 64.5  | 165 | 92.5  |                                |
| 25   | 1     | 16 | 25  | 135 | 67.5  | 196 | 97.5  |                                |
| 32   | 1 1/4 | 16 | 32  | 152 | 78.5  | 196 | 108.5 |                                |
| 40   | 1 1/2 | 16 | 38  | 170 | 85    | 232 | 122.5 |                                |
| 50   | 2     | 16 | 50  | 190 | 93    | 232 | 130.2 |                                |
| 65   | 2 1/2 | 16 | 64  | 240 | 121   | 300 | 191   |                                |
| 80   | 3     | 16 | 76  | 285 | 153   | 300 | 223   |                                |
| 100  | 4     | 16 | 100 | 330 | 170.5 | 400 | 262.5 |                                |

#### Valve Operator

Lever operation

- Pneumatic or electric actuators available.
- Limit switches, positioners, solenoid valves and many other customer options available.
- Contact FLOWX for appropriate choice and sizing of valve actuators.

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## 3-Way Thread Ball Valves

### ■ Features of Actuators

- Heavy duty Rack and pinion design
- Spring return or double acting
- Open and closed adjustment stops
- True NAMUR accessory and ISO mounting
- Visual indicator, Top Mount indicator
- High temperature and corrosion resistant models available
- Solenoids, limit switches, positioners and other accessories are available
- Fully adjustable limit switches allow for fine control of on-off positions
- All electric actuators are available for modulating (4-20mA control) or on-off service
- Motor has thermal overload protection
- Running Time: 9s/13s/15s/30s/50s/100s/150s
- Heavy-duty gear train motor with permanent lubrication
- ISO bottom mounting for direct mount actuation with true ISO valves on most models



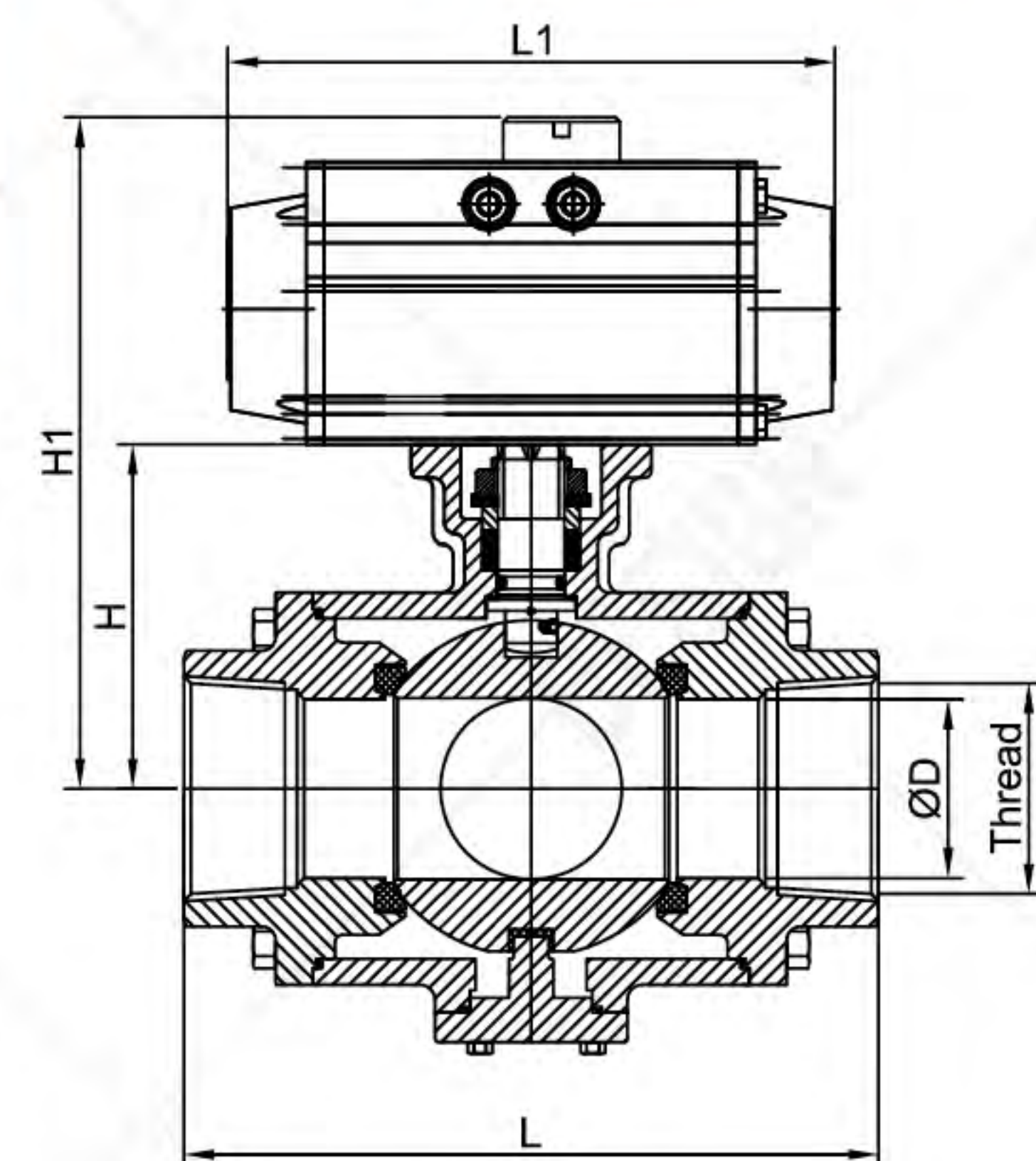
*Pneumatically Operated*



*Electrically Operated*

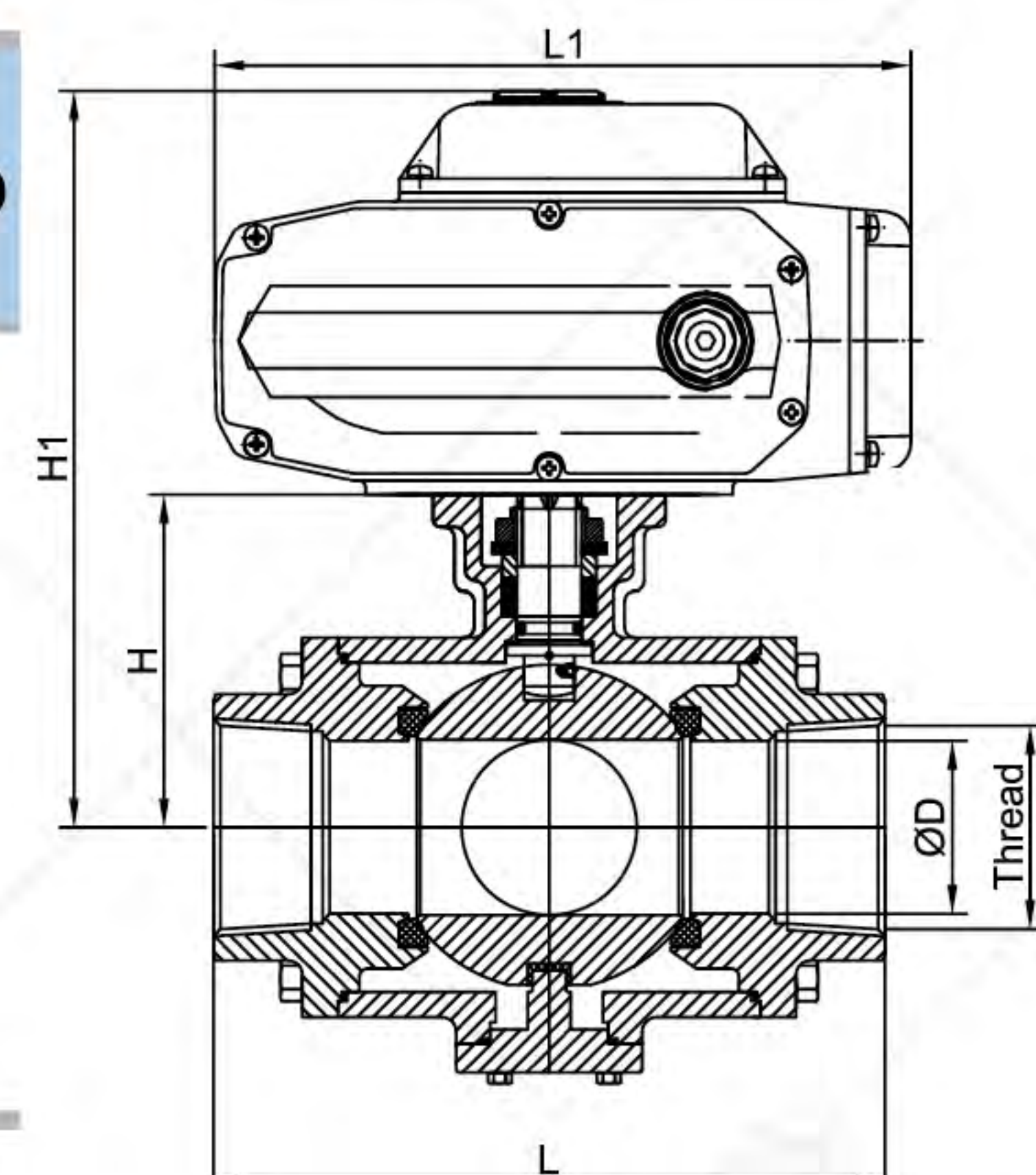
### ■ Dimentional Data

| Size |     | PN | ΦD  | L   | H     | SR    |       | DA    |       | THREAD                         |
|------|-----|----|-----|-----|-------|-------|-------|-------|-------|--------------------------------|
| DN   | In. |    |     |     |       | H1    | L1    | H1    | L1    |                                |
| 15   | 1   | 16 | 15  | 120 | 64.5  | 165   | 162   | 154   | 139.5 | NPT<br>BSP<br>PT<br>DIN<br>etc |
| 20   | 1¼  | 16 | 20  | 120 | 64.5  | 165   | 162   | 154   | 139.5 |                                |
| 25   | 1½  | 16 | 25  | 135 | 67.5  | 184.5 | 207   | 168   | 162   |                                |
| 32   | 2   | 16 | 32  | 152 | 78.5  | 195.5 | 207   | 179   | 162   |                                |
| 40   | 2½  | 16 | 38  | 170 | 85    | 213.3 | 237.5 | 202   | 207   |                                |
| 50   | 3   | 16 | 50  | 190 | 93    | 211.5 | 237.5 | 210   | 207   |                                |
| 65   | 4   | 16 | 64  | 240 | 121   | 262.5 | 271.5 | 249.5 | 237.5 |                                |
| 80   | 5   | 16 | 76  | 285 | 153   | 324.5 | 328   | 294.5 | 271.5 |                                |
| 100  | 6   | 16 | 100 | 330 | 170.5 | 354.5 | 366   | 342   | 328   |                                |



### ■ Dimentional Data

| Size |     | PN | ΦD  | L   | H     | H1    | L1    | THREAD                         |
|------|-----|----|-----|-----|-------|-------|-------|--------------------------------|
| DN   | In. |    |     |     |       |       |       |                                |
| 15   | 1   | 16 | 15  | 120 | 64.5  | 202   | 165   | NPT<br>BSP<br>PT<br>DIN<br>etc |
| 20   | 1¼  | 16 | 20  | 120 | 64.5  | 202   | 165   |                                |
| 25   | 1½  | 16 | 25  | 135 | 67.5  | 205   | 165   |                                |
| 32   | 2   | 16 | 32  | 152 | 78.5  | 216   | 165   |                                |
| 40   | 2½  | 16 | 38  | 170 | 85    | 222.5 | 165   |                                |
| 50   | 3   | 16 | 50  | 190 | 93    | 261.5 | 211.5 |                                |
| 65   | 4   | 16 | 64  | 240 | 121   | 324   | 259   |                                |
| 80   | 5   | 16 | 76  | 285 | 153   | 356   | 259   |                                |
| 100  | 6   | 16 | 100 | 330 | 170.5 | 373.5 | 259   |                                |



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## 3-Way Flange Ball Valves

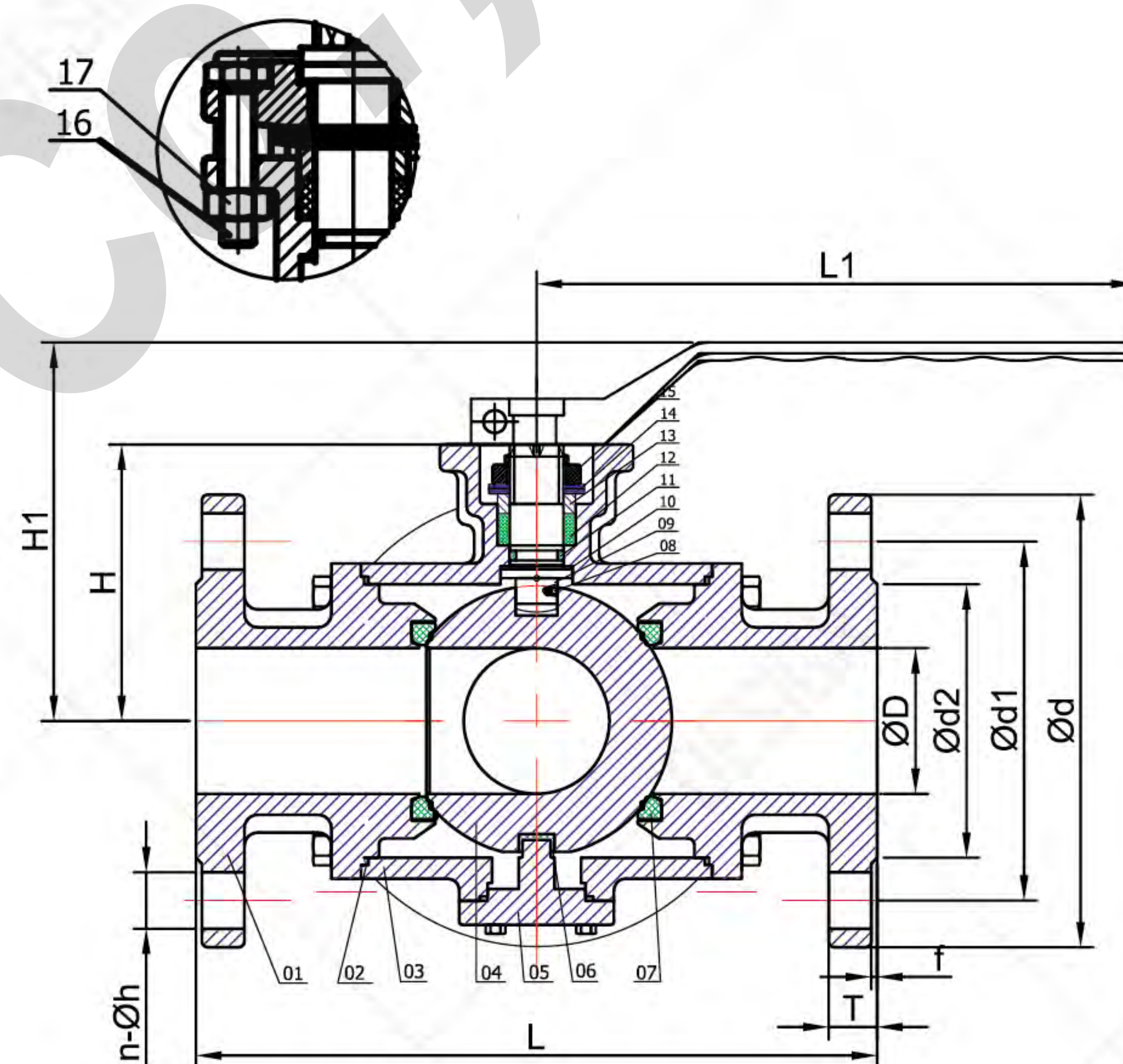
### Features

- > 1/2" through 4"
- > L-Port or T-Port Configurations
- > ANSI 150# Flanged Ends
- > Electric and Pneumatic Actuators
- > 4-Seat Design for high cycling
- > Cost-efficient Actuators
- > Secure True ISO Mounting Pad
  - Most models are direct mount for lowest possible stack up height
- > Ported 3 way ball valves offering excellent versatility for mixing and diverting applications.
- > ISO 5211 Secure Mount actuator top flange



### Material List

| NO. | PARTS NAME        | MATERIAL |          |          |
|-----|-------------------|----------|----------|----------|
| 1   | BONNET            | WCB      | CF8      | CF8M     |
| 2   | SEAT              | TFM1600  |          |          |
| 3   | BODY              | WCB      | CF8      | CF8M     |
| 4   | BALL              | SS304    | SS304    | SS316    |
| 5   | FIXED SEAT        | SS304    | SS304    | SS316    |
| 6   | WEAR-PROOF CASING | PTFE     |          |          |
| 7   | SEAT              | TFM1600  |          |          |
| 8   | ESD               | SS       |          |          |
| 9   | STEM              | SS316    |          |          |
| 10  | THRUST WASHER     | RTFE     |          |          |
| 11  | O-RING            | VITON    |          |          |
| 12  | PACKING           | TFM1600  |          |          |
| 13  | PACKING RING      | SS       |          |          |
| 14  | DISC SPRING       | SS       |          |          |
| 15  | PACKING GLAND     | WCB      | SS       | SS       |
| 16  | BOLT              | A 193 B7 | A 193 B8 | A 193 B8 |
| 17  | NUT               | A 194 2H | A 194 8  | A 194 8  |



### Dimentional Data

| Size |       | PN    | ΦD  | Φd  | Φd1 | Φd2 | L   | n | Φh | T  | f | H     | H1    | L1  |
|------|-------|-------|-----|-----|-----|-----|-----|---|----|----|---|-------|-------|-----|
| DN   | In.   |       |     |     |     |     |     |   |    |    |   |       |       |     |
| 15   | 1/2   | 10-40 | 15  | 95  | 65  | 45  | 155 | 4 | 14 | 16 | 2 | 64.5  | 92.5  | 165 |
| 20   | 3/4   | 10-40 | 20  | 105 | 75  | 58  | 165 | 4 | 14 | 18 | 2 | 64.5  | 92.5  | 165 |
| 25   | 1     | 10-40 | 25  | 115 | 85  | 68  | 181 | 4 | 14 | 18 | 2 | 67.5  | 97.5  | 196 |
| 32   | 1 1/4 | 10-40 | 32  | 140 | 100 | 78  | 190 | 4 | 18 | 18 | 2 | 75.5  | 108.5 | 196 |
| 40   | 1 1/2 | 10-40 | 40  | 150 | 110 | 88  | 212 | 4 | 18 | 18 | 3 | 85    | 122.5 | 232 |
| 50   | 2     | 10-40 | 50  | 165 | 125 | 102 | 232 | 4 | 18 | 20 | 3 | 93    | 130.5 | 232 |
| 65   | 2 1/2 | 10-40 | 65  | 185 | 145 | 122 | 290 | 4 | 18 | 22 | 3 | 121   | 191   | 300 |
| 80   | 3     | 10-16 | 76  | 200 | 160 | 138 | 310 | 8 | 18 | 20 | 3 | 153   | 223   | 300 |
| 100  | 4     | 10-40 | 100 | 220 | 180 | 158 | 352 | 8 | 18 | 22 | 3 | 170.5 | 262   | 400 |

### Valve Operator

Lever operation

- Pneumatic or electric actuators available.
- Limit switches, positioners, solenoid valves and many other customer options available.
- Contact FLOWX for appropriate choice and sizing of valve actuators.

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## 3-Way Flange Ball Valves

### Features of Actuators

- > Heavy duty Rack and pinion design
- > Spring return or double acting
- > Open and closed adjustment stops
- > True NAMUR accessory and ISO mounting
- > Visual indicator, Top Mount indicator
- > High temperature and corrosion resistant models available
- > Solenoids, limit switches, positioners and other accessories are available
- > Fully adjustable limit switches allow for fine control of on-off positions
- > All electric actuators are available for modulating (4-20mA control) or on-off service
- > Motor has thermal overload protection
- > Running Time: 9s/13s/15s/30s/50s/100s/150s
- > Heavy-duty gear train motor with permanent lubrication
- > ISO bottom mounting for direct mount actuation with true ISO valves on most models



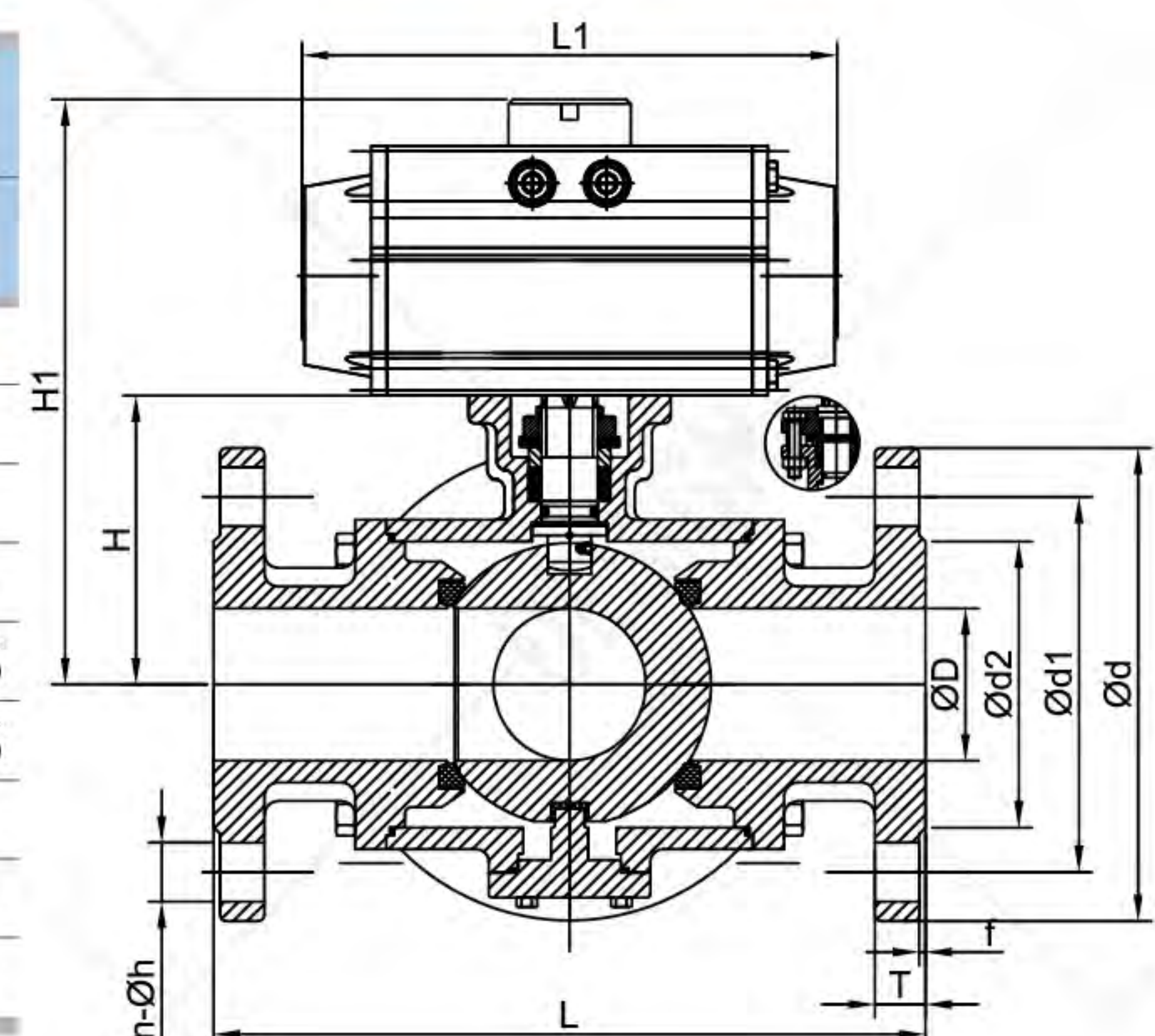
*Pneumatically Operated*



*Electrically Operated*

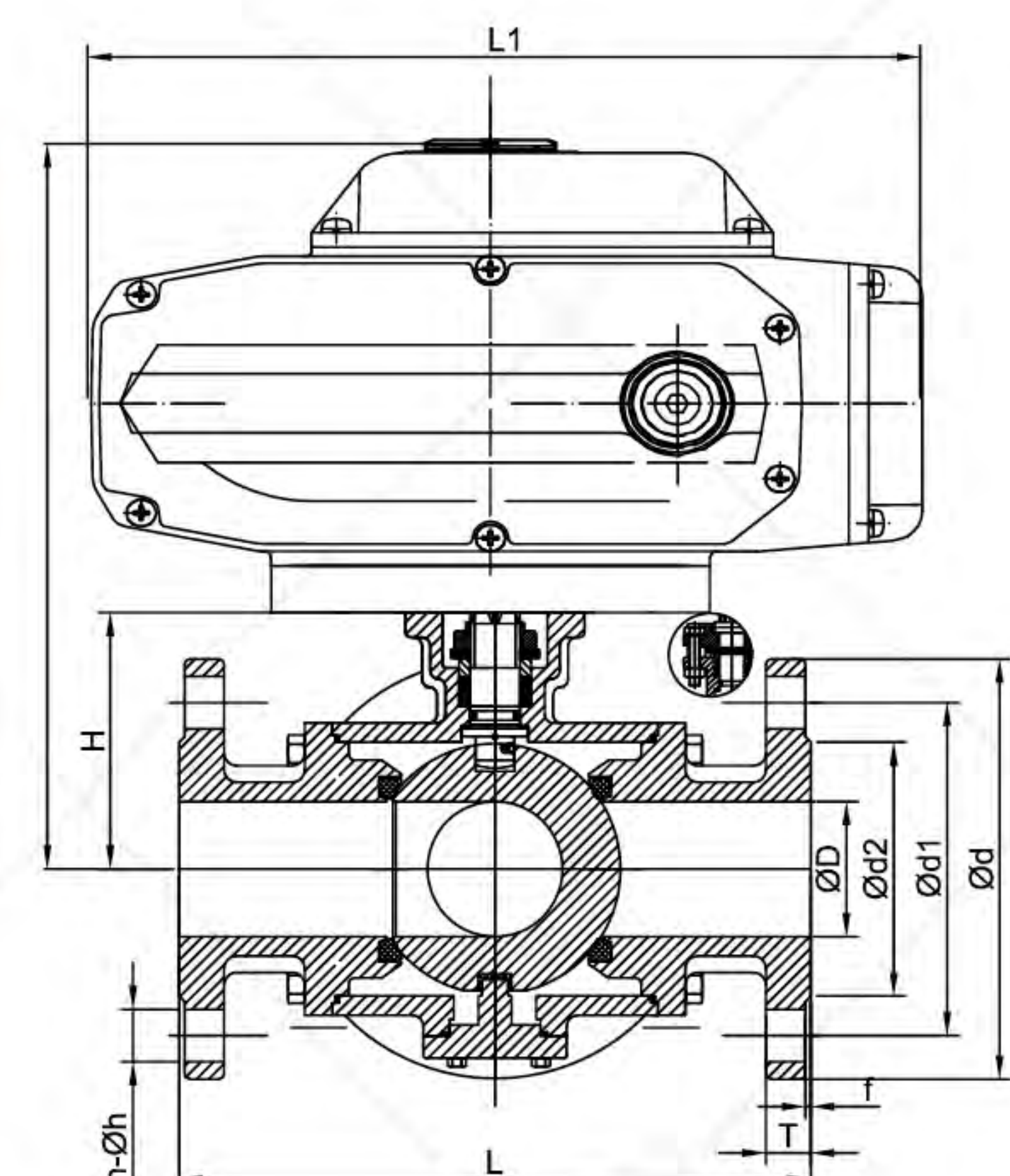
### Dimentional Data

| Size |     | PN    | ΦD  | Φd  | Φd1 | Φd2 | L   | n | Φh | T  | f | H     | SR    |       | DA    |       |
|------|-----|-------|-----|-----|-----|-----|-----|---|----|----|---|-------|-------|-------|-------|-------|
| DN   | In. |       |     |     |     |     |     |   |    |    |   |       | H1    | L1    | H1    | L1    |
| 15   | ½   | 10-40 | 15  | 95  | 65  | 45  | 155 | 4 | 14 | 16 | 2 | 64.5  | 181.5 | 207   | 165   | 162   |
| 20   | ¾   | 10-40 | 20  | 105 | 75  | 58  | 165 | 4 | 14 | 18 | 2 | 64.5  | 193   | 237.5 | 181.5 | 207   |
| 25   | 1   | 10-40 | 25  | 115 | 85  | 68  | 181 | 4 | 14 | 18 | 2 | 67.5  | 196   | 237.5 | 184.5 | 207   |
| 32   | 1¼  | 10-40 | 32  | 140 | 100 | 78  | 190 | 4 | 18 | 18 | 2 | 78.5  | 207   | 237.5 | 195.5 | 207   |
| 40   | 1½  | 10-40 | 40  | 150 | 110 | 88  | 212 | 4 | 18 | 18 | 3 | 85    | 226.5 | 271.5 | 213.5 | 237.5 |
| 50   | 2   | 10-40 | 50  | 165 | 125 | 102 | 232 | 4 | 18 | 20 | 3 | 93    | 264.5 | 328   | 234.5 | 271.5 |
| 65   | 2½  | 10-40 | 65  | 185 | 145 | 122 | 290 | 4 | 18 | 22 | 3 | 121   | 304.5 | 366   | 292.5 | 328   |
| 80   | 3   | 10-16 | 76  | 200 | 160 | 138 | 310 | 8 | 18 | 20 | 3 | 153   | 359   | 428   | 336.5 | 366   |
| 100  | 4   | 10-16 | 100 | 220 | 180 | 158 | 352 | 8 | 18 | 22 | 3 | 170.5 | 392.5 | 430   | 376.5 | 428   |



### Dimentional Data

| Size |     | PN    | ΦD  | Φd  | Φd1 | Φd2 | L   | n | Φh | T  | f | H     | H1    | L1    |
|------|-----|-------|-----|-----|-----|-----|-----|---|----|----|---|-------|-------|-------|
| DN   | In. |       |     |     |     |     |     |   |    |    |   |       |       |       |
| 15   | ½   | 10-40 | 15  | 95  | 65  | 45  | 155 | 4 | 14 | 16 | 2 | 64.5  | 202   | 165   |
| 20   | ¾   | 10-40 | 20  | 105 | 75  | 58  | 165 | 4 | 14 | 18 | 2 | 64.5  | 202   | 165   |
| 25   | 1   | 10-40 | 25  | 115 | 85  | 68  | 181 | 4 | 14 | 18 | 2 | 67.5  | 205   | 165   |
| 32   | 1¼  | 10-40 | 32  | 140 | 100 | 78  | 190 | 4 | 18 | 18 | 2 | 78.5  | 216   | 165   |
| 40   | 1½  | 10-40 | 40  | 150 | 110 | 88  | 212 | 4 | 18 | 18 | 3 | 85    | 253.5 | 211.5 |
| 50   | 2   | 10-40 | 50  | 165 | 125 | 102 | 232 | 4 | 18 | 20 | 3 | 93    | 261.5 | 211.5 |
| 65   | 2½  | 10-40 | 65  | 185 | 145 | 122 | 290 | 4 | 18 | 22 | 3 | 121   | 324   | 259   |
| 80   | 3   | 10-16 | 76  | 200 | 160 | 138 | 310 | 8 | 18 | 20 | 3 | 153   | 356   | 259   |
| 100  | 4   | 10-16 | 100 | 220 | 180 | 158 | 352 | 8 | 18 | 22 | 3 | 170.5 | 373.5 | 259   |



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## True Union Ball Valves

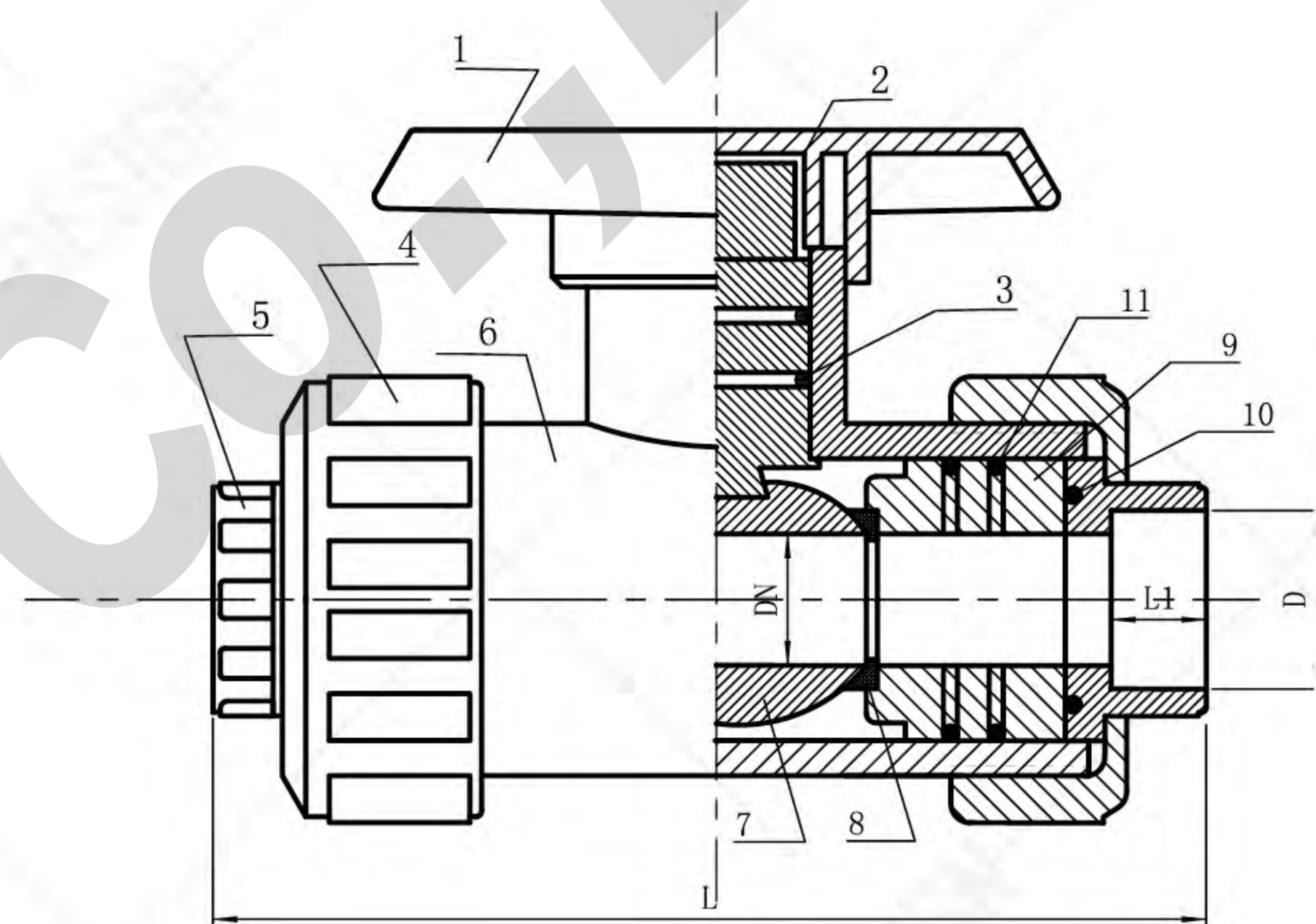
### ■ Features

- > 1/2" through 4"
- > True Union Ends
- > PN10 working pressure
- > Temperature rating varies from with o-ring material
- > Electric and Pneumatic Actuators
- > Cost-efficient Actuators
- > Ideal for Use in Chemical, Industrial, Irrigation, or
- > Pool and Spa NSF Listed for Potable Water



### ■ Material List

| NO. | PARTS NAME | MATERIAL | QTY |
|-----|------------|----------|-----|
| 1   | HANDLE     | ABS      | 1   |
| 2   | STEM       | UPVC     | 1   |
| 3   | SEALING    | EPDM     | 2   |
| 4   | NUT        | UPVC     | 2   |
| 5   | JOINT      | UPVC     | 2   |
| 6   | BODY       | UPVC     | 1   |
| 7   | BALL       | UPVC     | 1   |
| 8   | SEAL       | PTFE     | 2   |
| 9   | PLUG       | UPVC     | 2   |
| 10  | SEAL       | EPDM     | 2   |
| 11  | SEAL       | EPDM     | 2   |



### ■ Dimentional Data

| Size |       | D   | L   | L1 |
|------|-------|-----|-----|----|
| DN   | In.   |     |     |    |
| 15   | 1/2   | 20  | 100 | 15 |
| 25   | 1     | 32  | 118 | 20 |
| 32   | 1 1/4 | 40  | 150 | 23 |
| 40   | 1 1/2 | 50  | 170 | 25 |
| 50   | 2     | 63  | 200 | 28 |
| 65   | 2 1/2 | 75  | 215 | 32 |
| 80   | 3     | 90  | 265 | 35 |
| 100  | 4     | 110 | 360 | 45 |

#### Valve Operator

Lever operation

- Pneumatic or electric actuators available.
- Limit switches, positioners, solenoid valves and many other customer options available.
- Contact FLOWX for appropriate choice and sizing of valve actuators.

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## True Union Ball Valves

### Features of Actuators

- > Heavy duty Rack and pinion design
- > Spring return or double acting
- > Open and closed adjustment stops
- > True NAMUR accessory and ISO mounting
- > Visual indicator, Top Mount indicator
- > High temperature and corrosion resistant models available
- > Solenoids, limit switches, positioners and other accessories are available
- > Fully adjustable limit switches allow for fine control of on-off positions
- > All electric actuators are available for modulating (4-20mA control) or on-off service
- > Motor has thermal overload protection
- > Running Time: 9s/13s/15s/30s/50s/100s/150s
- > Heavy-duty gear train motor with permanent lubrication
- > ISO bottom mounting for direct mount actuation with true ISO valves on most models



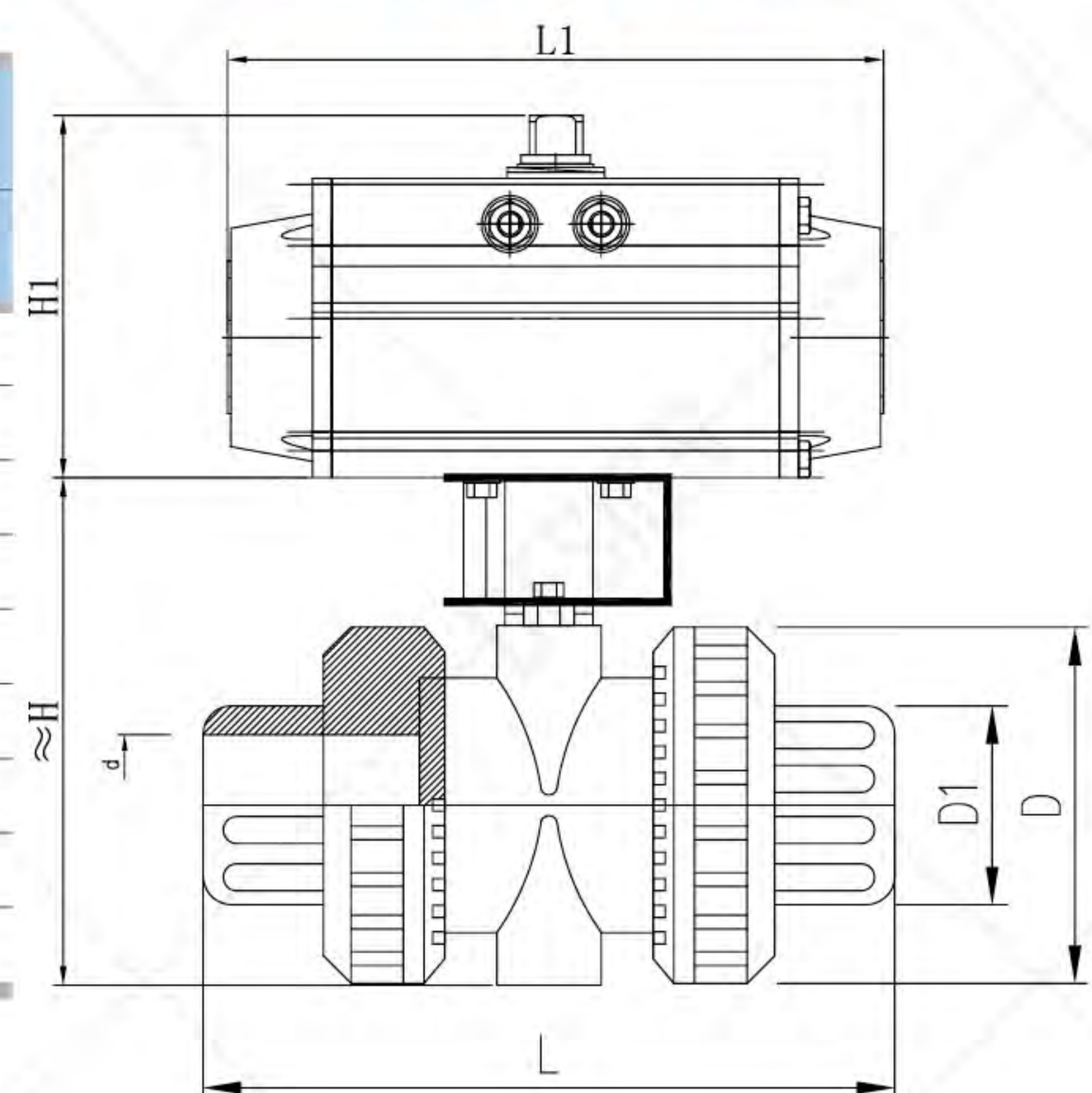
*Pneumatically Operated*



*Electrically Operated*

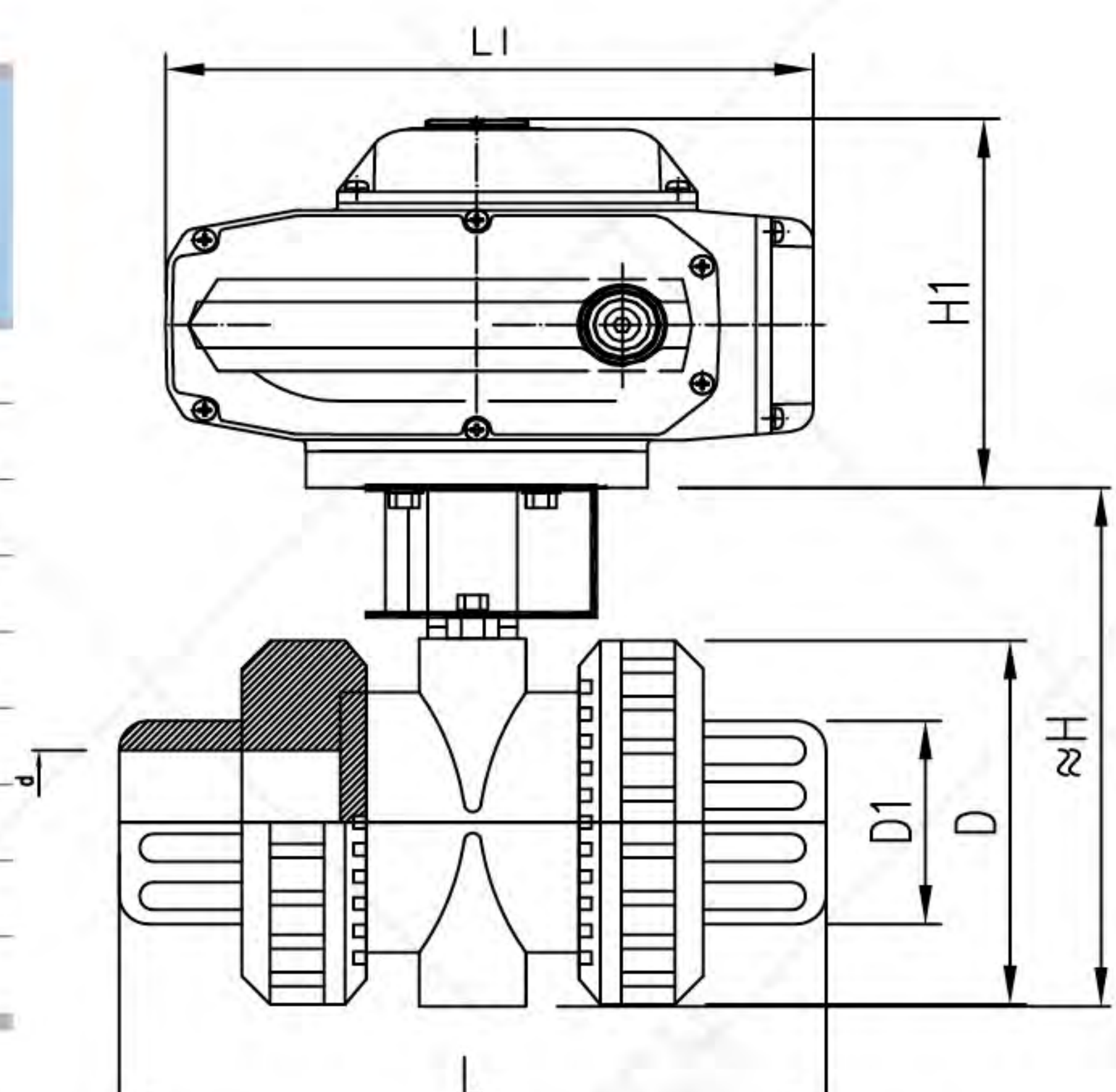
### Dimentional Data

| Size |       | Φd  | ΦD  | ΦD1   | L     | H   | SR    |       | DA    |       |
|------|-------|-----|-----|-------|-------|-----|-------|-------|-------|-------|
| DN   | In.   |     |     |       |       |     | L1    | H1    | L1    | H1    |
| 15   | 1/2   | 20  | 46  | 30.5  | 112   | 81  | 162   | 100.5 | 139.5 | 89.5  |
| 20   | 3/4   | 25  | 55  | 36.5  | 130   | 90  | 162   | 100.5 | 139.5 | 89.5  |
| 25   | 1     | 32  | 66  | 43.5  | 144   | 101 | 207   | 117   | 162   | 100.5 |
| 32   | 1 1/4 | 40  | 82  | 54    | 168   | 117 | 207   | 117   | 162   | 100.5 |
| 40   | 1 1/2 | 50  | 98  | 64.5  | 173   | 133 | 237.5 | 128.5 | 207   | 117   |
| 50   | 2     | 63  | 120 | 78.5  | 204   | 170 | 237.5 | 128.5 | 207   | 117   |
| 65   | 2 1/2 | 75  | 139 | 92    | 275   | 189 | 271.5 | 141.5 | 237.5 | 128.5 |
| 80   | 3     | 90  | 162 | 109   | 300.5 | 212 | 328   | 171.5 | 271.5 | 141.5 |
| 100  | 4     | 110 | 226 | 145.5 | 330   | 286 | 366   | 183.5 | 328   | 171.5 |



### Dimentional Data

| Size |       | Φd  | ΦD  | ΦD1   | L     | H   | L1    | H1    |
|------|-------|-----|-----|-------|-------|-----|-------|-------|
| DN   | In.   |     |     |       |       |     |       |       |
| 15   | 1/2   | 20  | 46  | 30.5  | 112   | 81  | 165   | 137.5 |
| 20   | 3/4   | 25  | 55  | 36.5  | 130   | 90  | 165   | 137.5 |
| 25   | 1     | 32  | 66  | 43.5  | 144   | 101 | 165   | 137.5 |
| 32   | 1 1/4 | 40  | 82  | 54    | 168   | 117 | 165   | 137.5 |
| 40   | 1 1/2 | 50  | 98  | 64.5  | 173   | 133 | 165   | 137.5 |
| 50   | 2     | 63  | 120 | 78.5  | 204   | 170 | 211.5 | 168.5 |
| 65   | 2 1/2 | 75  | 139 | 92    | 275   | 189 | 259   | 203   |
| 80   | 3     | 90  | 162 | 109   | 300.5 | 212 | 259   | 203   |
| 100  | 4     | 110 | 226 | 145.5 | 330   | 286 | 259   | 203   |



ALL VALVES ARE 100% ELECTRONICALLY TESTED AT 80 PSI IN BOTH THE OPEN AND CLOSED POSITIONS

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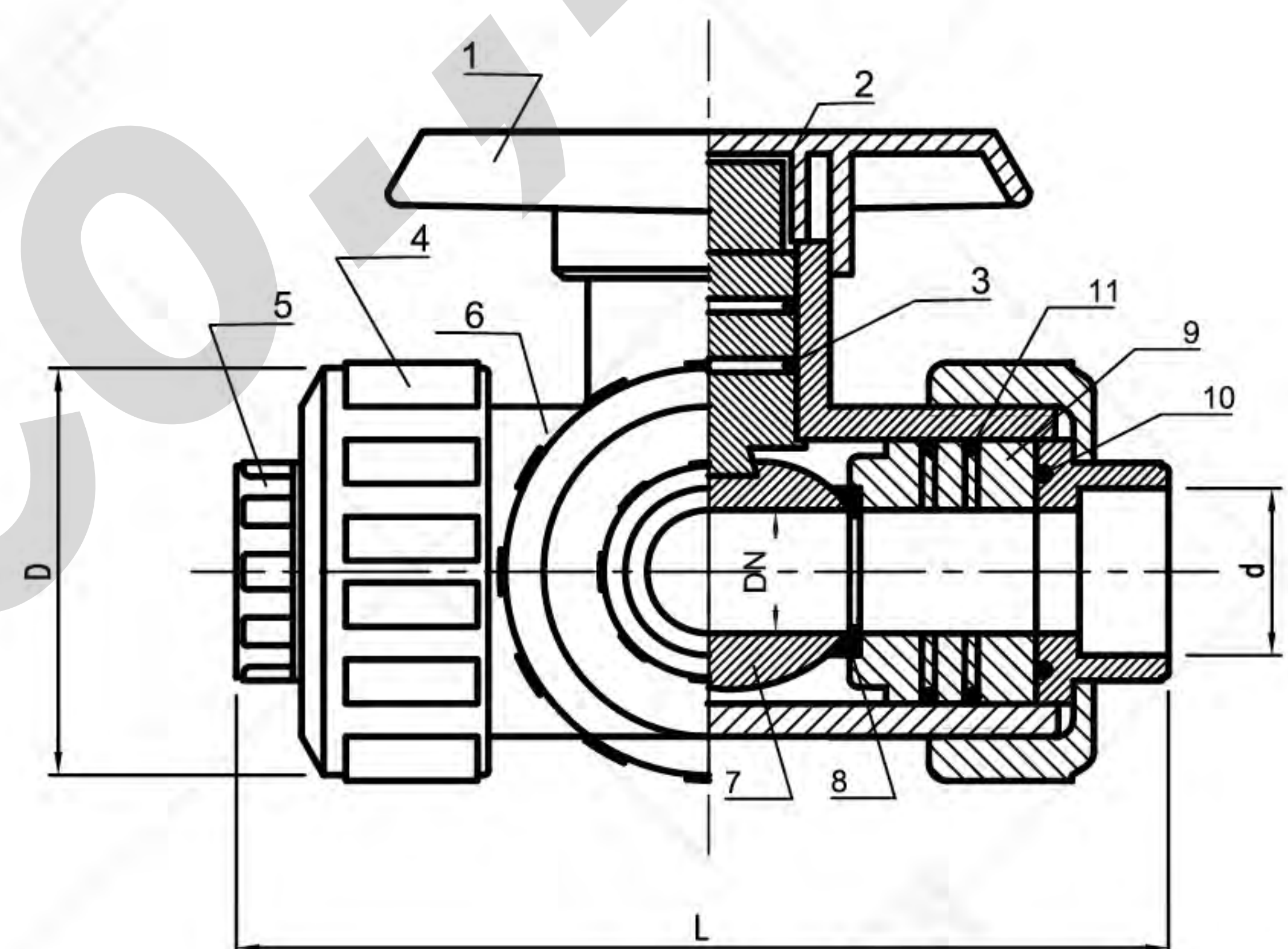
## 3-Way True Union Ball Valves

### ■ Features

- > 3/8" through 2"
- > L-Port or T-Port Configurations
- > True Union Ends
- > PN10 working pressure
- > Temperature rating varies from with o-ring material
- > Electric and Pneumatic Actuators
- > Cost-efficient Actuators
- > Ideal for Use in Chemical, Industrial, Irrigation, or Pool and Spa NSF Listed for Potable Water

### ■ Material List

| NO. | PARTS NAME | MATERIAL | QTY |
|-----|------------|----------|-----|
| 1   | HANDLE     | ABS      | 1   |
| 2   | STEM       | UPVC     | 1   |
| 3   | SEALING    | EPDM     | 2   |
| 4   | NUT        | UPVC     | 2   |
| 5   | JOINT      | UPVC     | 2   |
| 6   | BODY       | UPVC     | 1   |
| 7   | BALL       | UPVC     | 1   |
| 8   | SEAL       | PTFE     | 2   |
| 9   | PLUG       | UPVC     | 2   |
| 10  | SEAL       | EPDM     | 2   |
| 11  | SEAL       | EPDM     | 2   |



### ■ Dimentional Data

| Size |       | Φd | ΦD  | L     |
|------|-------|----|-----|-------|
| DN   | In.   |    |     |       |
| 10   | 3/8   | 16 | 54  | 118   |
| 15   | 1/2   | 20 | 54  | 118   |
| 20   | 3/4   | 25 | 65  | 145   |
| 25   | 1     | 32 | 73  | 160   |
| 32   | 1 1/4 | 40 | 86  | 188.5 |
| 40   | 1 1/2 | 50 | 98  | 219   |
| 50   | 2     | 63 | 122 | 266.5 |

#### Valve Operator

Lever operation

- Pneumatic or electric actuators available.
- Limit switches, positioners, solenoid valves and many other customer options available.
- Contact FLOWX for appropriate choice and sizing of valve actuators.

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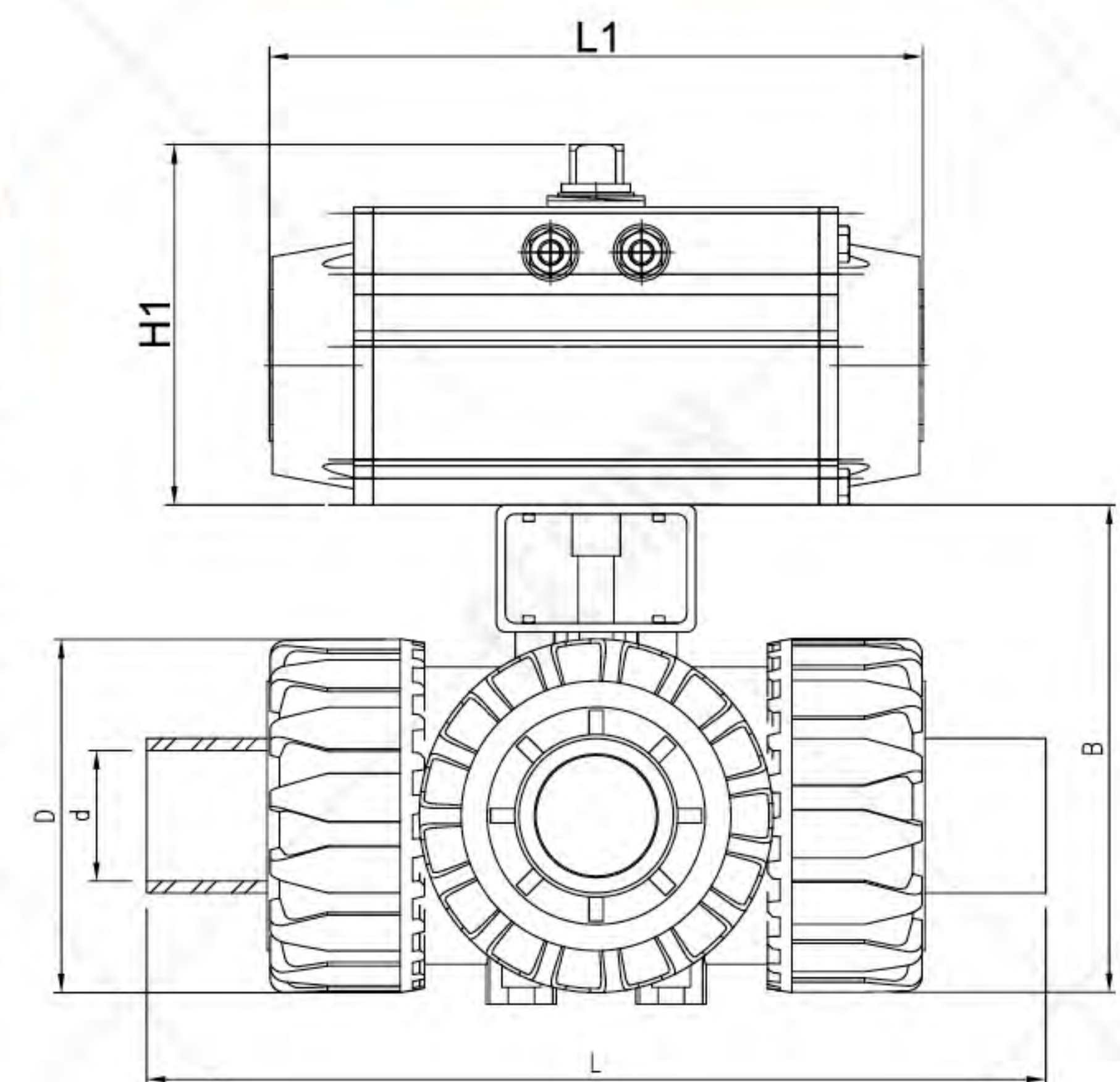
*Pneumatically Operated*



*Electrically Operated*

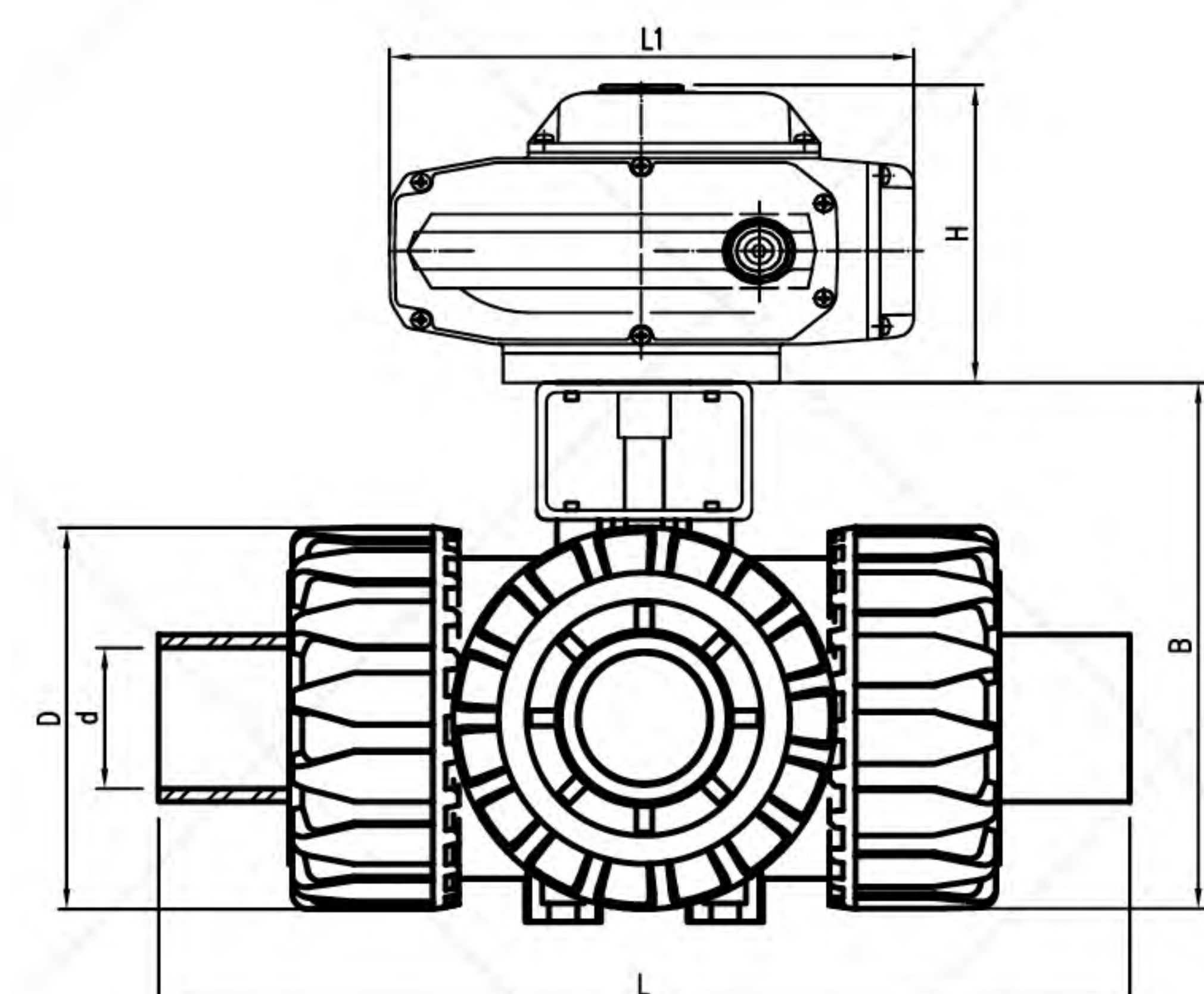
### Dimentional Data

| Size |       | Φd | ΦD  | L     | B     | SR    |       | DA    |       |
|------|-------|----|-----|-------|-------|-------|-------|-------|-------|
| DN   | In.   |    |     |       |       | L1    | H1    | L1    | H1    |
| 10   | 3/8   | 16 | 54  | 118   | 87    | 162   | 100.5 | 139.5 | 89.5  |
| 15   | 1/2   | 20 | 54  | 118   | 87    | 162   | 100.5 | 139.5 | 89.5  |
| 20   | 3/4   | 25 | 65  | 145   | 103.5 | 207   | 117   | 162   | 100.5 |
| 25   | 1     | 32 | 73  | 160   | 113   | 207   | 117   | 162   | 100.5 |
| 32   | 1 1/4 | 40 | 86  | 188.5 | 137   | 207   | 117   | 162   | 100.5 |
| 40   | 1 1/2 | 50 | 98  | 219   | 149   | 237.5 | 128.5 | 207   | 117   |
| 50   | 2     | 63 | 122 | 266.5 | 176   | 271.5 | 141.5 | 237.5 | 128.5 |



### Dimentional Data

| Size |       | Φd | ΦD  | L     | B     | L1    | H1    |
|------|-------|----|-----|-------|-------|-------|-------|
| DN   | In.   |    |     |       |       |       |       |
| 10   | 3/8   | 16 | 54  | 118   | 87    | 165   | 137.5 |
| 15   | 1/2   | 20 | 54  | 118   | 87    | 165   | 137.5 |
| 20   | 3/4   | 25 | 65  | 145   | 103.5 | 165   | 137.5 |
| 25   | 1     | 32 | 73  | 160   | 113   | 165   | 137.5 |
| 32   | 1 1/4 | 40 | 86  | 188.5 | 137   | 165   | 137.5 |
| 40   | 1 1/2 | 50 | 98  | 219   | 149   | 211.5 | 168.5 |
| 50   | 2     | 63 | 122 | 266.5 | 176   | 211.5 | 168.5 |



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### **ITALY FLOWX VALVE S.R.L**

Viale Giulio Cesare 71,00192 Rome  
Tel: +39 06 5236 2443  
Web: [www.flowxcontrol.com](http://www.flowxcontrol.com)

### **SHANGHAI FLOWX VALVE CO., LTD.**

Tel: 86 021 3297 7873  
Email: [sales@flowxvalve.com](mailto:sales@flowxvalve.com)  
Web: [www.flowxvalve.com](http://www.flowxvalve.com)