

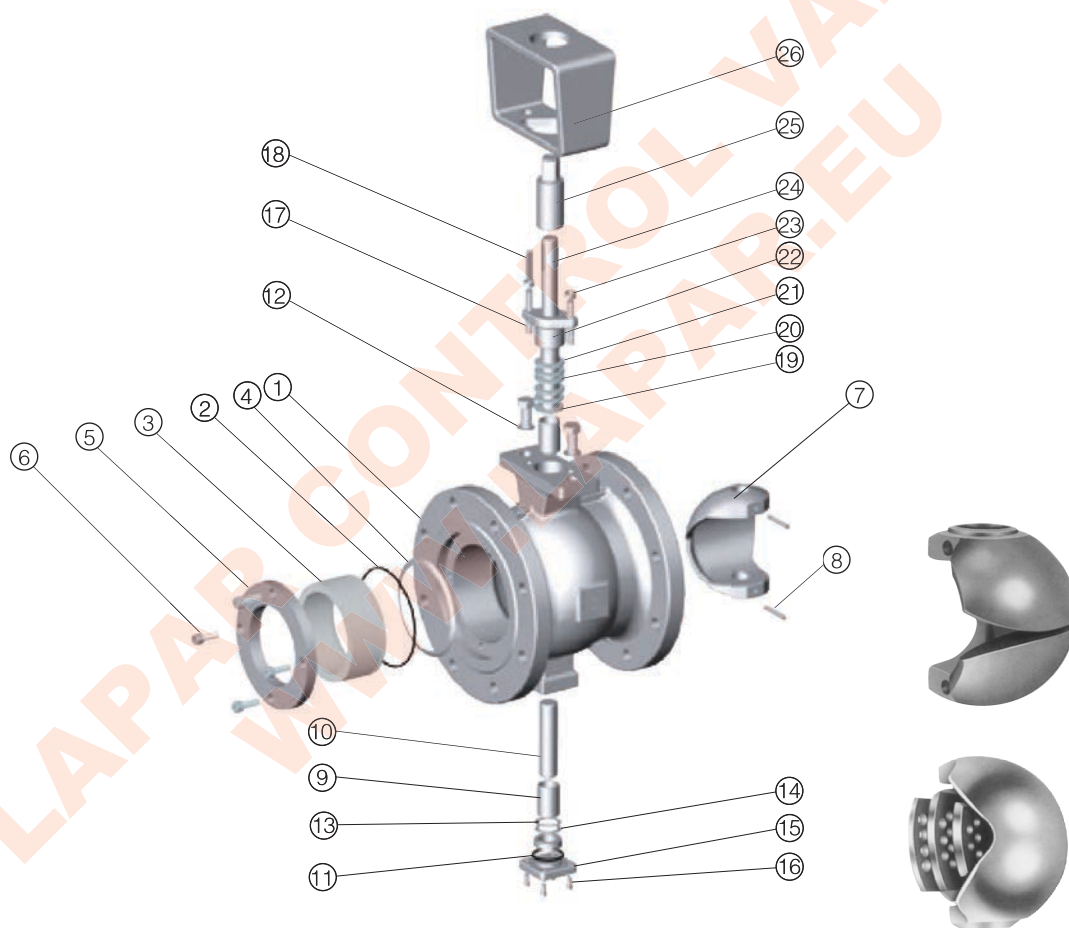


# LPA17—

## V Type Ball Valve



| Code   | Actuator                                                                                                                                                                                                                         | Action                                                                                                   | Air Fail Position                                                                                                                            | Control                                                                                                           | Structure                                                                    | Body                                                                                                                             | Sealing                                                                                                                             | Ball                                                                                                               | Connection DN                                                            | PN                                                        |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------|
| LPA17- | <ul style="list-style-type: none"><li>1 Pneumatic</li><li>2 Pneumatic &amp; Handwheel</li><li>3 Electric DC24V</li><li>4 Electric AC220V</li><li>5 Electric AC380V</li><li>7 Handle</li><li>8 Turbine</li><li>0 Others</li></ul> | <ul style="list-style-type: none"><li>D Double-acting</li><li>S Single-acting</li><li>0 Others</li></ul> | <ul style="list-style-type: none"><li>1 Normally Open</li><li>2 Normally Closed</li><li>3 Flexible</li><li>4 Held</li><li>0 Others</li></ul> | <ul style="list-style-type: none"><li>A On-off</li><li>B Control</li><li>C Intelligent</li><li>0 Others</li></ul> | <ul style="list-style-type: none"><li>5 One-piece</li><li>0 Others</li></ul> | <ul style="list-style-type: none"><li>A 316L</li><li>B 316</li><li>C 304</li><li>I 304L</li><li>D WCB</li><li>0 Others</li></ul> | <ul style="list-style-type: none"><li>P PTFE</li><li>Q TFM1600</li><li>T EK</li><li>R BODY</li><li>S STL</li><li>0 Others</li></ul> | <ul style="list-style-type: none"><li>A 316L</li><li>B 316</li><li>C 304</li><li>I 304L</li><li>0 Others</li></ul> | <ul style="list-style-type: none"><li>1 Flange</li><li>2 Wafer</li></ul> | <ul style="list-style-type: none"><li></li><li></li></ul> |



| No. | Part                  | Material                  | No. | Part             | Material |
|-----|-----------------------|---------------------------|-----|------------------|----------|
| 1   | Body                  | CF8, CF8M, CF3, CF3M, WCB | 14  | Adjusting Gasket | PTFE     |
| 2   | O-ring                | FPM                       | 15  | Back Gland       | CF8      |
| 3   | Seat                  | 304+STL                   | 16  | Screw            | CF8      |
| 4   | Spring                | 17-7PH                    | 17  | Stud             | CF8      |
| 5   | Seal Seat Cap         | CF8                       | 18  | Pin              | CF8      |
| 6   | Hexagon Socket Screw  | CF8                       | 19  | Bottom Packing   | PTFE     |
| 7   | Ball                  | CF8                       | 20  | Mid. Packing     | PTFE     |
| 8   | Pin                   | CF8                       | 21  | Upper Packing    | PTFE     |
| 9   | Self-lubricating stem | CF8-PTFE                  | 22  | Packing Gland    | CF8      |
| 10  | Bottom Stem           | 14-4PH                    | 23  | Nut              | CF8      |
| 11  | O-ring                | FPM                       | 24  | Upper Stem       | 174PH    |
| 12  | Gasket                | CF8                       | 25  | Stem             | CF8      |
| 13  | Ring Gasket           | PTFE                      | 26  | Yoke             | CF8      |



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## Design Feature

- Flange Standard:  
GB/9113.1-2000, JB/T 79.1-1994, HG 20592-1997  
ASME B 16.5, EN 1092-1:2001
- Pressure-temperature Rating:  
GB/T 12224-2007 ASME B 16.34-2003 ISO 7005-1
- Test:  
Strength & Density Test : GB/T 4213-2007  
Leakage Class: GB/T 4213-2007 V Class

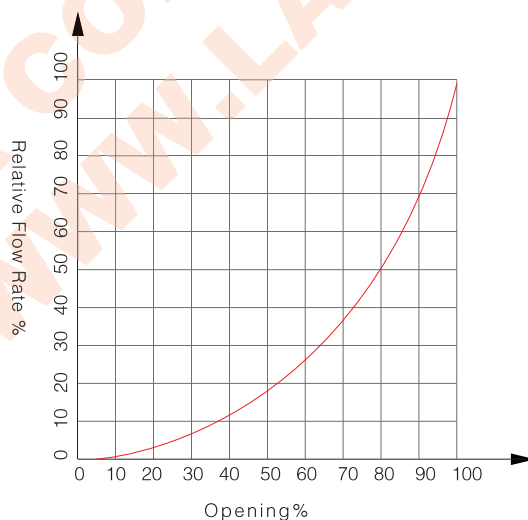
## Parameter

- DN: 25~400mm
- PN: 1.0~6.4Mpa
- Applicable Temperature:
  - ▲ PTFE, TFM1600: -29℃ ~ 178℃
  - ▲ EK: -29℃ ~ 250℃
  - ▲ BODY, STL: -40℃ ~ 425℃

## Tolerable Maximum Leakage

| DN  | Metal Seat  | Plastic Seat |
|-----|-------------|--------------|
| 25  | 1.50ml/min  | 0.15ml/min   |
| 32  | 1.80ml/min  | 0.18ml/min   |
| 40  | 2.40ml/min  | 0.24ml/min   |
| 50  | 3.00ml/min  | 0.30ml/min   |
| 65  | 3.90ml/min  | 0.39ml/min   |
| 80  | 4.80ml/min  | 0.48ml/min   |
| 100 | 6.00ml/min  | 0.60ml/min   |
| 125 | 7.50ml/min  | 0.75ml/min   |
| 150 | 9.00ml/min  | 0.90ml/min   |
| 200 | 12.00ml/min | 1.20ml/min   |
| 250 | 15.00ml/min | 1.50ml/min   |
| 300 | 18.00ml/min | 1.80ml/min   |
| 350 | 21.00ml/min | 2.10ml/min   |
| 400 | 24.00ml/min | 2.40ml/min   |

## Equal Percentage Flow Characteristics



## CV

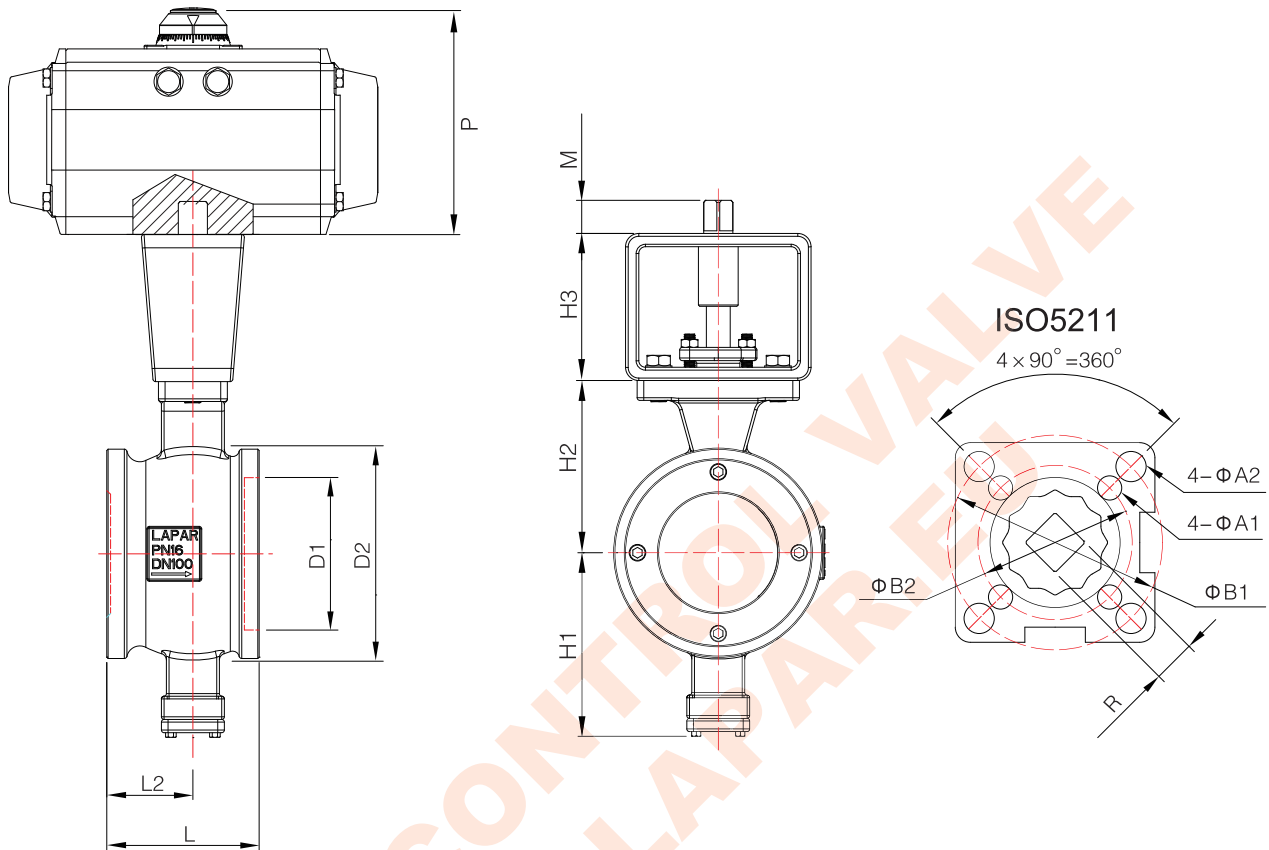
| DN  | Metal Seat | Plastic Seat |
|-----|------------|--------------|
| 25  | 45         | 26           |
| 32  | 70         | 50           |
| 40  | 110        | 70           |
| 50  | 180        | 120          |
| 65  | 280        | 220          |
| 80  | 420        | 340          |
| 100 | 620        | 520          |
| 125 | 920        | 810          |
| 150 | 1320       | 1100         |
| 200 | 2150       | 1800         |
| 250 | 3250       | 2800         |
| 300 | 4680       | 4100         |
| 350 | 6580       | 5800         |
| 400 | 8900       | 7600         |



# LPA17— V Type Ball Valve



## Wafer



\* P: Please refer to the actuator configuration table

Unit:mm

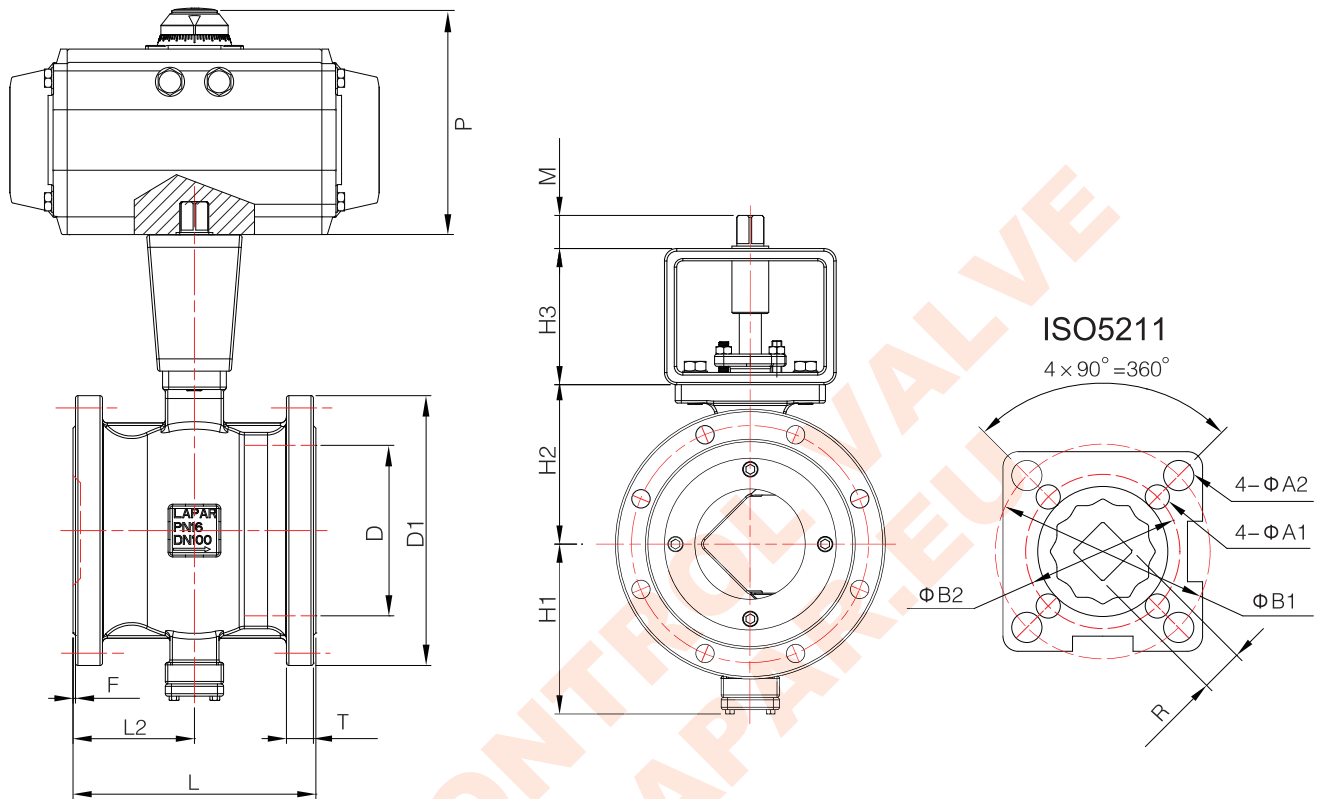
| DN  | L   | L2  | D   | D1  | H1  | H2  | H3  | M  | R  | A1 | A2 | B1  | B2  | IOS5211 |
|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|-----|---------|
| 25  | 50  | 30  | 38  | 68  | 81  | 73  | 102 | 11 | 11 | 6  | 7  | 42  | 50  | F04-F05 |
| 32  | 60  | 35  | 45  | 76  | 86  | 78  | 100 | 11 | 11 | 6  | 7  | 42  | 50  | F04-F05 |
| 40  | 60  | 35  | 50  | 84  | 90  | 80  | 102 | 14 | 14 | 7  | 9  | 50  | 70  | F05-07  |
| 50  | 75  | 43  | 62  | 100 | 93  | 90  | 104 | 14 | 14 | 7  | 9  | 50  | 70  | F05-07  |
| 65  | 100 | 50  | 73  | 118 | 108 | 105 | 102 | 17 | 17 | 9  | 11 | 70  | 102 | F07-F10 |
| 80  | 100 | 57  | 90  | 132 | 123 | 118 | 110 | 17 | 17 | 9  | 11 | 70  | 102 | F07-F10 |
| 100 | 115 | 65  | 115 | 158 | 138 | 130 | 108 | 22 | 22 | -  | 11 | -   | 102 | F10     |
| 125 | 129 | 78  | 134 | 184 | 148 | 145 | 110 | 27 | 27 | 14 | -  | 125 | -   | F12     |
| 150 | 160 | 95  | 164 | 216 | 170 | 170 | 124 | 27 | 27 | 14 | -  | 125 | -   | F12     |
| 200 | 200 | 120 | 206 | 268 | 200 | 201 | 124 | 27 | 27 | 14 | -  | 125 | -   | F12     |
| 250 | 240 | 148 | 260 | 326 | 240 | 237 | 140 | -  | -  | -  | -  | -   | -   | -       |



# LPA17- V Type Ball Valve



## Flange



\* P: Please refer to the actuator configuration table

PN16/25/40

Unit:mm

| DN  | L   | L2  | D   | D1  | H1  | H2  | H3  | T  | F | M  | R  | A1 | A2 | B1  | B2  | IOS5211 |
|-----|-----|-----|-----|-----|-----|-----|-----|----|---|----|----|----|----|-----|-----|---------|
| 25  | 102 | 51  | 38  | 115 | 81  | 73  | 102 | 15 | 2 | 11 | 11 | 6  | 7  | 42  | 50  | F04-F05 |
| 32  | 102 | 51  | 45  | 140 | 86  | 78  | 100 | 18 | 2 | 11 | 11 | 6  | 7  | 42  | 50  | F04-F05 |
| 40  | 114 | 57  | 50  | 150 | 90  | 80  | 102 | 18 | 2 | 14 | 14 | 7  | 9  | 50  | 70  | F05-07  |
| 50  | 124 | 60  | 62  | 165 | 93  | 90  | 104 | 20 | 2 | 14 | 14 | 7  | 9  | 50  | 70  | F05-07  |
| 65  | 145 | 70  | 73  | 185 | 108 | 105 | 102 | 20 | 2 | 17 | 17 | 9  | 11 | 70  | 102 | F07-F10 |
| 80  | 165 | 75  | 90  | 200 | 123 | 118 | 110 | 20 | 2 | 17 | 17 | 9  | 11 | 70  | 102 | F07-F10 |
| 100 | 194 | 92  | 115 | 220 | 138 | 130 | 108 | 22 | 2 | 22 | 22 | -  | 11 | -   | 102 | F10     |
| 125 | 194 | 97  | 134 | 250 | 148 | 145 | 110 | 22 | 2 | 27 | 27 | 14 | -  | 125 | -   | F12     |
| 150 | 229 | 110 | 164 | 285 | 170 | 170 | 124 | 24 | 2 | 27 | 27 | 14 | -  | 125 | -   | F12     |
| 200 | 243 | 120 | 206 | 340 | 200 | 201 | 124 | 24 | 2 | 27 | 27 | 14 | -  | 125 | -   | F12     |
| 250 | 297 | 148 | 260 | 405 | 240 | 237 | 140 | 26 | 2 | -  | -  | -  | -  | -   | -   | -       |
| 300 | 338 | 190 | 316 | 460 | 286 | 282 | 140 | 28 | 2 | -  | -  | -  | -  | -   | -   | -       |
| 350 | 400 | 221 | 372 | 520 | 330 | 337 | 170 | 30 | 2 | -  | -  | -  | -  | -   | -   | -       |
| 400 | 400 | 220 | 420 | 580 | 367 | 372 | 212 | 32 | 2 | -  | -  | -  | -  | -   | -   | -       |

ASME CLASS 150/300

Unit:mm

| DN  | L   | L2  | D   | D1  | H1  | H2  | H3  | T   | F | M  | R  | A1 | A2 | B1  | B2  | IOS5211 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|----|----|----|----|-----|-----|---------|
| 25  | 102 | 51  | 38  | 115 | 81  | 73  | 102 | 81  | 2 | 11 | 11 | 6  | 7  | 42  | 50  | F04-F05 |
| 32  | 102 | 51  | 45  | 140 | 86  | 78  | 100 | 86  | 2 | 11 | 11 | 6  | 7  | 42  | 50  | F04-F05 |
| 40  | 114 | 57  | 50  | 150 | 90  | 80  | 102 | 90  | 2 | 14 | 14 | 7  | 9  | 50  | 70  | F05-07  |
| 50  | 124 | 60  | 62  | 165 | 93  | 90  | 104 | 93  | 2 | 14 | 14 | 7  | 9  | 50  | 70  | F05-07  |
| 65  | 145 | 70  | 73  | 185 | 108 | 105 | 102 | 108 | 2 | 17 | 17 | 9  | 11 | 70  | 102 | F07-F10 |
| 80  | 165 | 75  | 90  | 200 | 123 | 118 | 110 | 123 | 2 | 17 | 17 | 9  | 11 | 70  | 102 | F07-F10 |
| 100 | 194 | 92  | 115 | 220 | 138 | 130 | 108 | 138 | 2 | 22 | 22 | -  | 11 | -   | 102 | F10     |
| 125 | 194 | 97  | 134 | 250 | 148 | 145 | 110 | 148 | 2 | 27 | 27 | 14 | -  | 125 | -   | F12     |
| 150 | 229 | 110 | 164 | 285 | 170 | 170 | 124 | 170 | 2 | 27 | 27 | 14 | -  | 125 | -   | F12     |
| 200 | 243 | 120 | 206 | 340 | 200 | 201 | 124 | 200 | 2 | 27 | 27 | 14 | -  | 125 | -   | F12     |
| 250 | 297 | 148 | 260 | 405 | 240 | 237 | 140 | 240 | 2 | -  | -  | -  | -  | -   | -   | -       |
| 300 | 338 | 190 | 316 | 460 | 286 | 282 | 140 | 286 | 2 | -  | -  | -  | -  | -   | -   | -       |
| 350 | 400 | 221 | 372 | 520 | 330 | 337 | 170 | 330 | 2 | -  | -  | -  | -  | -   | -   | -       |
| 400 | 400 | 220 | 420 | 580 | 367 | 372 | 212 | 367 | 2 | -  | -  | -  | -  | -   | -   | -       |