



■ Non Lubricated Plug Valve

Overview

Sleeve Plug Valve is a conical or cylindrical plug with a through hole. It can be quickly opened and closed by rotating 90 degrees. It is particularly suitable for high-pressure small-diameter pipeline systems that require frequent operation and strict sealing requirements. It can withstand corrosive media and high working pressure. It is widely used in petrochemical, hydraulic systems and other fields.



Application

Sleeve-type soft-sealed plug valves are suitable for pipelines in petroleum, chemical, pharmaceutical, fertilizer, electric power industries, and various working conditions, with a nominal pressure of CLASS 150–900 LBS and an operating temperature of -29°C to 180°C , to cut off or connect the pipeline medium.

Feature

1. The product features a well-designed structure, reliable sealing performance, and an aesthetically pleasing appearance.
2. Sealing is achieved through a sealing face around the sleeve, which incorporates a unique 360-degree metal edge that provides secure protection and fixation.
3. The valve is designed without internal cavities, preventing any accumulation of media.
4. The metal edge also enables a self-cleaning function during plug rotation, making it suitable for handling viscous or contamination-prone operating conditions.
5. Its bidirectional flow characteristic allows for more convenient installation and use.
6. The materials and flange dimensions are customizable to meet specific operating conditions and customer requirements, ensuring adaptability to diverse engineering needs.





Non Lubricated Plug Valve

| Technical Performance Specification | | | | | | | | | | | |
|-------------------------------------|------------------|---|-----|------|------|------|--------------------------------|-----|------|------|--|
| Technical Performance Specification | | ASME | | | | | DIN | | | | |
| Design Standard | | API599,API6D | | | | | Refer to API599 | | | | |
| Face-to-face Dimensions | | ASME B16.10 and factory standards | | | | | DIN 3202 and factory standards | | | | |
| Connection Flanges | | ASME B16.5 | | | | | / | | | | |
| BW Ends | | ASME B16.25 | | | | | Refer to ASME B16.25 | | | | |
| SW Ends | | ASME B16.11 | | | | | Refer to ASME B16.11 | | | | |
| Threaded Ends | | ASME B1.20.1 | | | | | Refer to ASME B1.20.1 | | | | |
| Inspection and Testing | | API598,API6D | | | | | Refer to API598 | | | | |
| Test Pressure | Nominal Pressure | 150 | 300 | 600 | 900 | 1.6 | 2.5 | 4.0 | 10.0 | 16.0 | |
| | Shell Test | 3.0 | 7.5 | 15.0 | 22.5 | 2.4 | 3.75 | 6.0 | 15.0 | 24.0 | |
| | Seal Test | 2.2 | 5.5 | 11.0 | 16.5 | 1.76 | 2.75 | 4.4 | 11.0 | 17.6 | |
| Applicable Temperature | | <150°C | | | | | | | | | |
| Applicable Medium | | Water,steam and oil tec. | | | | | | | | | |
| Actuation Methods | | Manual,gear operated,pneumatic operator,electric actuator | | | | | | | | | |

Note:Valve connection sizes can be designed and manufactured according to customers'requirements.

| Operating Torques for Plug Valve Stem (NM) | | | | | | | | | | | | | | | | | | |
|--|-----|-----|-----|-----|-------|-------|----|-------|----|-----|-----|-----|-----|-----|-----|------|------|------|
| Diameter | NPS | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| | DN | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 |
| Average torque of trunnion | | 4 | 4 | 9.4 | 10.8 | 10.8 | 18 | 23 | 26 | 73 | 146 | 189 | 413 | 783 | 827 | 1170 | 1587 | 1825 |

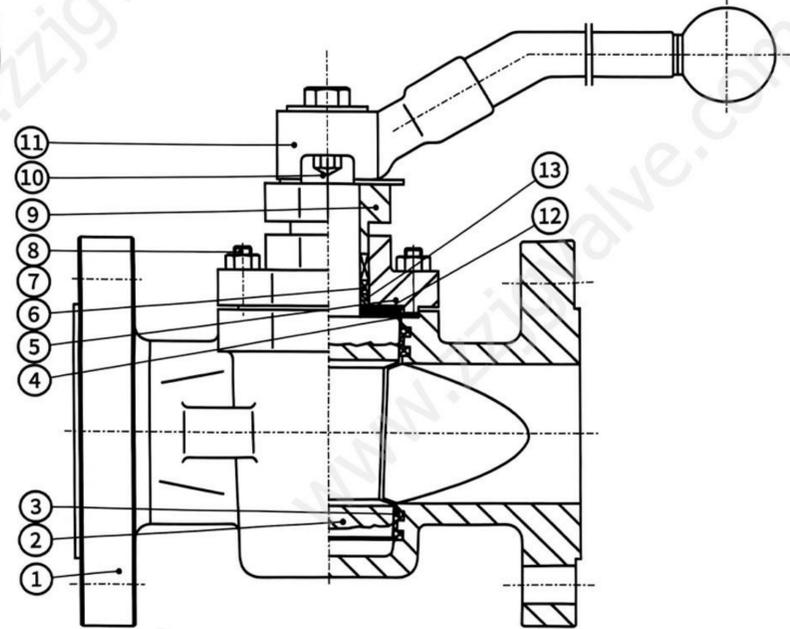
Note:Safety factor should be taken into consideration by customers when selecting actuators.

| Approximative Flow Coefficients of Plug Valve (CV) | | | | | | | | | | | | | | | | | | |
|--|-----|-----|------|------|-------|-------|-----|-------|-----|-----|-----|-----|------|------|------|------|------|-----|
| Diameter | NPS | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| | DN | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 |
| CV | | 7.4 | 19.5 | 48.8 | / | 83.5 | 153 | / | 322 | 555 | / | 955 | 1859 | 2361 | 3400 | 3430 | 7000 | / |





Non Lubricated Plug Valve - API



MAIN PARTS MATERIALS

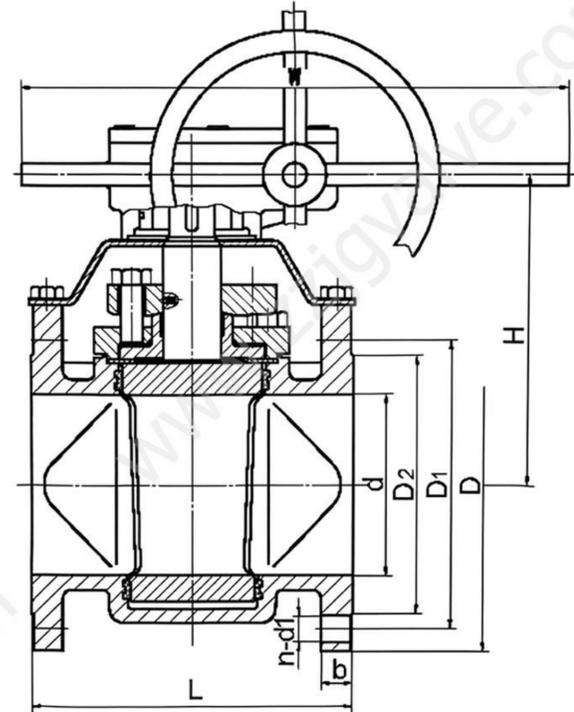
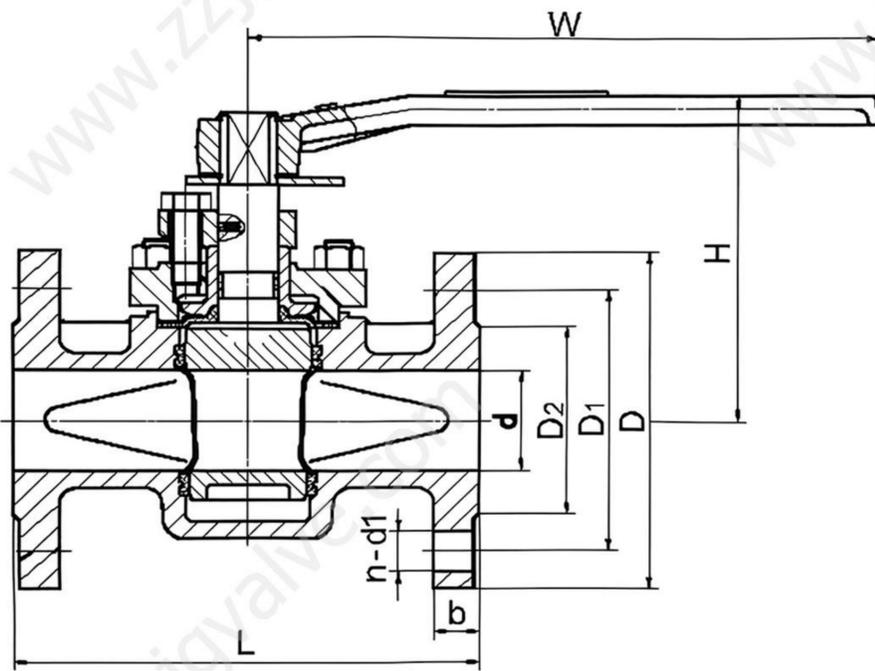
| NO. | Part name | Material |
|-----|------------------|--|
| 1 | Body | ASTM A216 WCB, ASTM A217 WC1, WC6, WC9, C5 ASTMA351 CF8, CF8M, CF3, CF3M |
| 2 | Plug | ASTM A216 WCB, ASTM A217 WC1, WC6, WC9, C5 ASTM A351 CF8, CF8M, CF3, CF3M |
| 3 | Sleeve(Seat) | PTFE, RPTFE, PPL, PEEK, Nylon |
| 4 | Gasket | Flexible graphite+stainless steel, PTFE |
| 5 | Bonnet | ASTM A216 WCB, ASTM A217 WC1, WC6, WC9, C5 ASTMA351 CF8, CF8M, CF3, CF3M |
| 6 | Packing | PTFE |
| 7 | Bolt | ASTMA193 B7, A320 B8, A193 B8M |
| 8 | Nut | ASTMA194 2H, A194 8, A194 8M |
| 9 | Gland | ASME A216 WCB ASME A217 WC1WC6 WC9, C5 ASME A351 CF8, CF8M, CF3, CF3M |
| 10 | Adjusting gasket | ASTMA193 B7, A320 B8, A193 B8M |
| 11 | Wrench | ASTMA216 WCB |
| 12 | Adjusting pad | SS304, SS316 |
| 13 | Packing pad | SS304, SS316 |





Non Lubricated Plug Valve

Flange Connection CLASS150



Main Dimensions

| Nominal diameter | | Standard value | | | | | | | Reference value | | |
|------------------|------------|----------------|-----|-------|-----|---|----|--------|-----------------|-----|-------|
| DN (mm) | NPS (inch) | L | D | D1 | D2 | f | b | Z-d | W | H | G(kg) |
| CLASS150 | | | | | | | | | | | |
| 15 | 1/2 | 108 | 89 | 60.5 | 35 | 2 | 11 | 4-Φ15 | 120 | 85 | 2 |
| 20 | 3/4 | 117 | 98 | 70 | 43 | 2 | 11 | 4-Φ15 | 140 | 95 | 3 |
| 25 | 1 | 127 | 108 | 79.5 | 51 | 2 | 12 | 4-Φ15 | 140 | 105 | 4.5 |
| 32 | 1 1/4 | 140 | 117 | 89 | 64 | 2 | 13 | 4-Φ15 | 200 | 115 | 5.2 |
| 40 | 1 1/2 | 165 | 127 | 98.5 | 73 | 2 | 15 | 4-Φ15 | 250 | 125 | 7.5 |
| 50 | 2 | 178 | 152 | 120.5 | 92 | 2 | 16 | 4-Φ19 | 250 | 140 | 11 |
| 65 | 2 1/2 | 190 | 178 | 139.5 | 105 | 2 | 18 | 4-Φ19 | 300 | 150 | 17.1 |
| 80 | 3 | 203 | 190 | 152.5 | 127 | 2 | 19 | 4-Φ19 | 300 | 185 | 18 |
| 100 | 4 | 229 | 229 | 190.5 | 157 | 2 | 24 | 8-Φ19 | 350 | 200 | 34 |
| 125 | 5 | 254 | 254 | 216 | 186 | 2 | 24 | 8-Φ22 | 350 | 215 | 39 |
| 150 | 6 | 267 | 279 | 241.5 | 216 | 2 | 26 | 8-Φ22 | 200* | 455 | 68 |
| 200 | 8 | 292 | 343 | 298.5 | 270 | 2 | 29 | 8-Φ22 | 240* | 495 | 115 |
| 250 | 10 | 330 | 406 | 362 | 324 | 2 | 31 | 12-Φ25 | 280* | 555 | 195 |
| 300 | 12 | 356 | 483 | 432 | 381 | 2 | 32 | 12-Φ25 | 320* | 605 | 305 |
| 350 | 14 | 686 | 533 | 476 | 413 | 2 | 35 | 12-Φ29 | 320* | 680 | 325 |
| 400 | 16 | 762 | 597 | 540 | 470 | 2 | 37 | 16-Φ29 | 360* | 715 | 846 |
| 450 | 18 | 864 | 635 | 578 | 533 | 2 | 40 | 16-Φ32 | 400* | 755 | 885 |

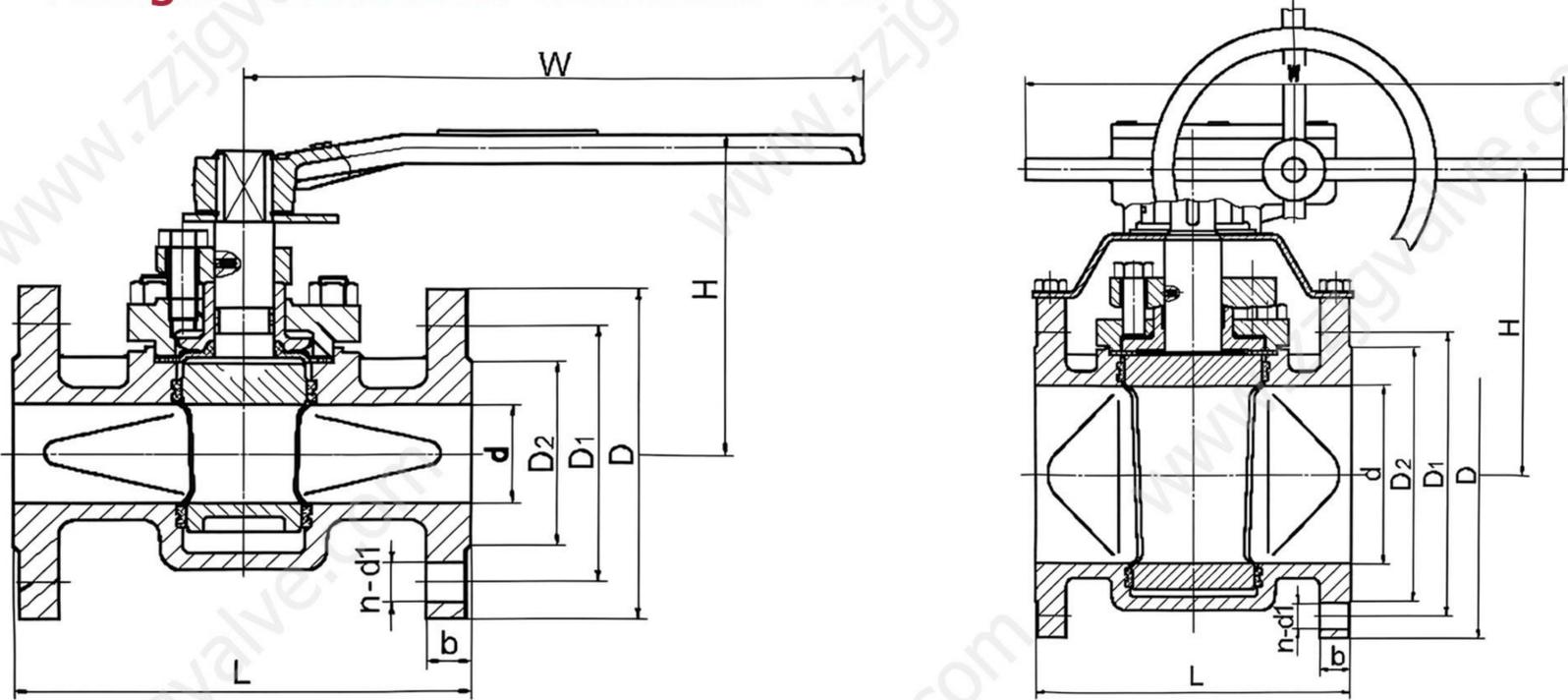
* Gear operator





Non Lubricated Plug Valve

Flange Connection CLASS300~600



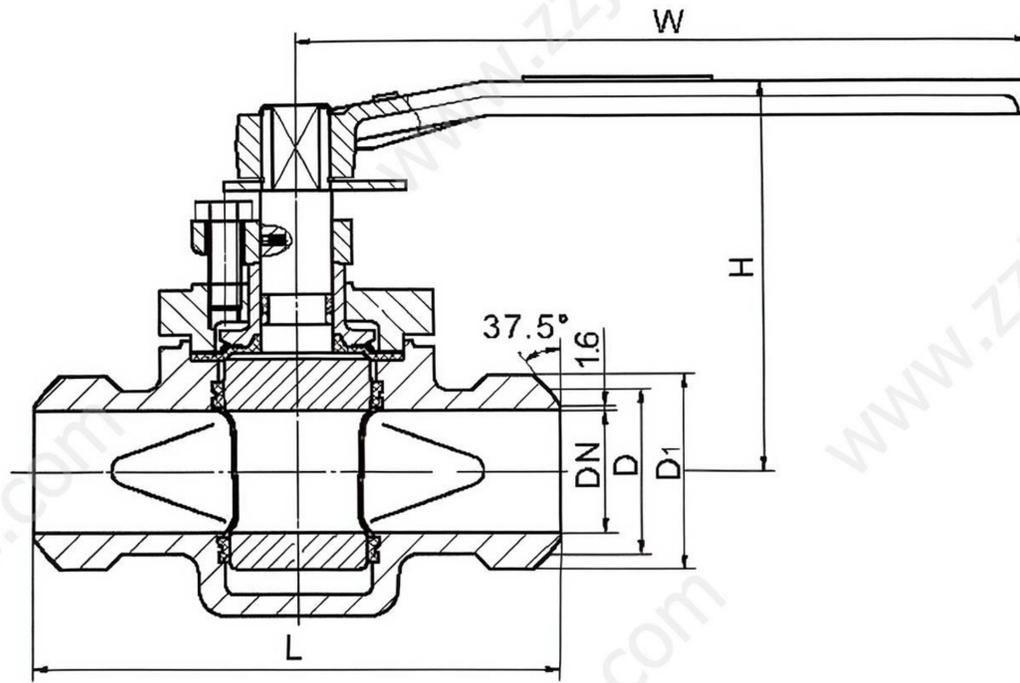
Main Dimensions

| Nominal diameter | | Standard value | | | | | | | Reference value | | |
|------------------|------------|----------------|-----|-------|-----|---|----|--------|-----------------|-----|-------|
| DN (mm) | NPS (inch) | L | D | D1 | D2 | f | b | Z-d | W | H | G(kg) |
| CLASS300 | | | | | | | | | | | |
| 15 | 1/2 | 140 | 95 | 66.5 | 35 | 2 | 15 | 4-Φ15 | 160 | 85 | 2.5 |
| 20 | 3/4 | 152 | 117 | 82.5 | 43 | 2 | 16 | 4-Φ19 | 160 | 95 | 4 |
| 25 | 1 | 165 | 124 | 89 | 51 | 2 | 18 | 4-Φ19 | 200 | 105 | 5 |
| 32 | 1 1/4 | 178 | 133 | 98.5 | 64 | 2 | 19 | 4-Φ19 | 250 | 115 | 6 |
| 40 | 1 1/2 | 190 | 156 | 114.5 | 73 | 2 | 21 | 4-Φ22 | 250 | 125 | 8.5 |
| 50 | 2 | 216 | 165 | 127 | 92 | 2 | 23 | 8-Φ19 | 300 | 140 | 13 |
| 65 | 2 1/2 | 241 | 190 | 149 | 105 | 2 | 26 | 8-Φ22 | 300 | 150 | 15 |
| 80 | 3 | 283 | 210 | 168.5 | 127 | 2 | 29 | 8-Φ22 | 350 | 185 | 24 |
| 100 | 4 | 305 | 254 | 200 | 157 | 2 | 32 | 8-Φ22 | 350 | 200 | 27 |
| 125 | 5 | 381 | 279 | 235 | 186 | 2 | 35 | 8-Φ22 | 400 | 225 | 40 |
| 150 | 6 | 403 | 318 | 270 | 216 | 2 | 37 | 12-Φ22 | 200* | 460 | 65 |
| 200 | 8 | 419 | 381 | 330 | 270 | 2 | 42 | 12-Φ25 | 240* | 495 | 145 |
| 250 | 10 | 457 | 445 | 387.5 | 324 | 2 | 48 | 16-Φ29 | 280* | 560 | 255 |
| 300 | 12 | 502 | 521 | 451 | 381 | 2 | 51 | 16-Φ32 | 320* | 610 | 325 |
| 350 | 14 | 762 | 584 | 514.5 | 413 | 2 | 54 | 20-Φ32 | 360* | 685 | 355 |
| CLASS600 | | | | | | | | | | | |
| 25 | 1 | 216 | 124 | 89 | 51 | 7 | 18 | 4-Φ19 | 250 | 125 | 7 |
| 32 | 1 1/4 | 229 | 133 | 98.5 | 64 | 7 | 21 | 4-Φ19 | 250 | 135 | 8.2 |
| 40 | 1 1/2 | 241 | 156 | 114.5 | 73 | 7 | 23 | 4-Φ22 | 300 | 140 | 10.8 |
| 50 | 2 | 292 | 165 | 127 | 92 | 7 | 26 | 8-Φ19 | 350 | 150 | 12.5 |
| 65 | 2 1/2 | 330 | 190 | 149 | 100 | 7 | 29 | 8-Φ22 | 350 | 175 | 15.3 |
| 80 | 3 | 356 | 210 | 168 | 127 | 7 | 32 | 8-Φ22 | 400 | 195 | 25 |
| 100 | 4 | 432 | 273 | 216 | 157 | 7 | 38 | 8-Φ25 | 400 | 215 | 29.5 |
| 150 | 6 | 559 | 356 | 292 | 216 | 7 | 48 | 12-Φ29 | 280* | 500 | 70 |

* Gear operator



Non Lubricated Plug Valve Butt-welding Ends CLASS150~900



Main Dimensions

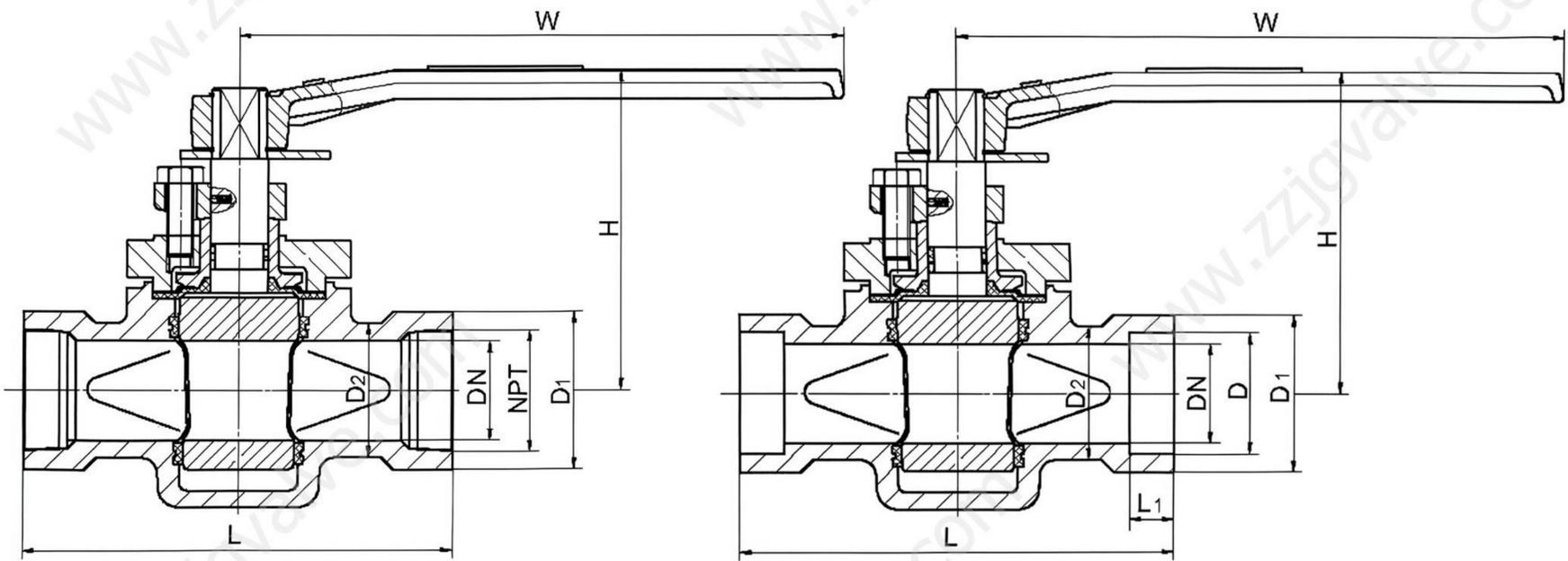
| Nominal diameter | | Standard Value | | | Reference Value | | | Standard Value | | | Reference Value | | |
|------------------|------------|----------------|-----|-----|-----------------|-----|-------|----------------|-----|-----|-----------------|-----|-------|
| DN (mm) | NPS (inch) | L | D1 | D | W | H | G(kg) | L | D1 | D | W | H | W(kg) |
| | | CLASS150 | | | | | | CLASS300 | | | | | |
| 15 | 1/2 | 165 | 28 | 25 | 160 | 85 | 3.4 | 165 | 28 | 25 | 160 | 85 | 3.7 |
| 20 | 3/4 | 190 | 33 | 30 | 160 | 85 | 4.2 | 190 | 33 | 30 | 190 | 90 | 4.6 |
| 25 | 1 | 216 | 38 | 35 | 190 | 90 | 5.8 | 216 | 38 | 35 | 190 | 100 | 6.2 |
| 32 | 1 1/4 | 229 | 45 | 42 | 190 | 100 | 6.7 | 229 | 45 | 42 | 240 | 110 | 7.2 |
| 40 | 1 1/2 | 241 | 56 | 50 | 240 | 110 | 8.4 | 241 | 56 | 50 | 305 | 120 | 8.9 |
| 50 | 2 | 267 | 70 | 62 | 305 | 120 | 9.1 | 267 | 70 | 62 | 305 | 130 | 9.4 |
| 65 | 2 1/2 | 305 | 88 | 75 | 305 | 130 | 11.8 | 305 | 88 | 75 | 450 | 135 | 12.3 |
| 80 | 3 | 330 | 104 | 91 | 450 | 135 | 13.4 | 330 | 104 | 91 | 500 | 150 | 14 |
| 100 | 4 | 356 | 126 | 117 | 600 | 150 | 26.1 | 356 | 126 | 117 | 600 | 160 | 27.2 |
| | | CLASS600 | | | | | | CLASS900 | | | | | |
| 15 | 1/2 | 165 | 31 | 25 | 160 | 90 | 4.1 | 190 | 41 | 25 | 190 | 95 | 4.7 |
| 20 | 3/4 | 190 | 36 | 30 | 190 | 100 | 4.9 | 216 | 46 | 30 | 220 | 100 | 5.3 |
| 25 | 1 | 216 | 41 | 35 | 220 | 110 | 6.6 | 254 | 51 | 35 | 240 | 110 | 7.4 |
| 32 | 1 1/4 | 229 | 49 | 42 | 240 | 120 | 7.7 | 279 | 61 | 42 | 305 | 120 | 8.6 |
| 40 | 1 1/2 | 241 | 59 | 50 | 305 | 130 | 8.6 | 305 | 70 | 50 | 325 | 130 | 9.6 |
| 50 | 2 | 292 | 73 | 62 | 325 | 135 | 10.2 | 368 | 88 | 62 | 450 | 135 | 11.3 |
| 65 | 2 1/2 | 330 | 89 | 75 | 450 | 150 | 13.1 | 419 | 110 | 75 | 550 | 150 | 14.1 |
| 80 | 3 | 356 | 105 | 91 | 550 | 160 | 15.5 | 381 | 128 | 91 | 650 | 165 | 16.7 |
| 100 | 4 | 432 | 132 | 117 | 650 | 180 | 28 | 457 | 157 | 117 | 750 | 185 | 28.7 |





Non Lubricated Plug Valve

Socket-welding Ends, Screw Thread Ends CLASS150~900



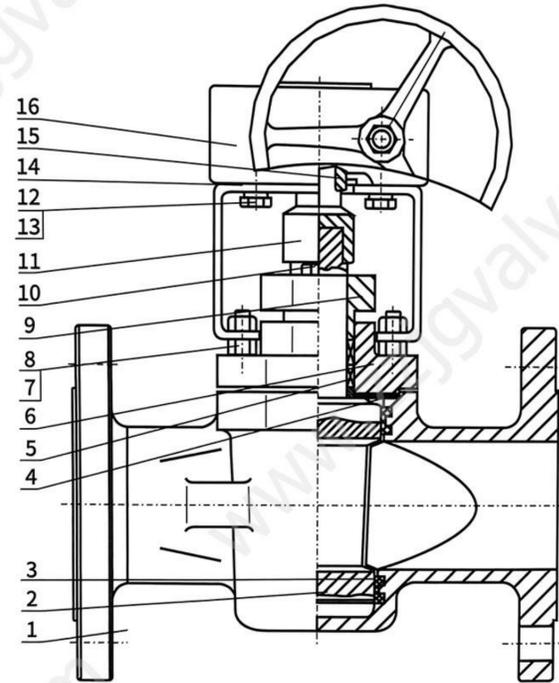
Main Dimensions

| Nominal diameter | | | Standard Value | | | | | Reference Value | | | Standard Value | | | | | Reference Value | | |
|------------------|------------|-------|----------------|----|-------|-----|-----|-----------------|-----|-------|----------------|----|-------|-----|-----|-----------------|-----|-------|
| DN (mm) | NPS (inch) | NPT | L* | L1 | D | D2 | D1 | W | H | G(kg) | L* | L1 | D | D2 | D1 | W | H | G(kg) |
| | | | | | | | | | | | | | | | | | | |
| 15 | 1/2 | 1/2 | 165 | 10 | 21.95 | 28 | 32 | 160 | 85 | 3 | 165 | 10 | 21.95 | 28 | 32 | 160 | 85 | 3.5 |
| 20 | 3/4 | 3/4 | 190 | 13 | 27.3 | 33 | 38 | 160 | 85 | 3.5 | 190 | 13 | 27.3 | 33 | 38 | 190 | 90 | 4.1 |
| 25 | 1 | 1 | 216 | 13 | 34.05 | 38 | 46 | 190 | 90 | 5.3 | 216 | 13 | 34.05 | 38 | 46 | 190 | 100 | 5.8 |
| 32 | 1 1/4 | 1 1/4 | 229 | 13 | 42.8 | 45 | 55 | 190 | 100 | 6.1 | 229 | 13 | 42.8 | 45 | 55 | 240 | 110 | 6.4 |
| 40 | 1 1/2 | 1 1/2 | 241 | 13 | 48.9 | 56 | 63 | 240 | 110 | 7 | 241 | 13 | 48.9 | 56 | 63 | 305 | 120 | 7.4 |
| 50 | 2 | 2 | 267 | 16 | 61.35 | 70 | 76 | 305 | 120 | 7.3 | 267 | 16 | 61.35 | 70 | 76 | 305 | 130 | 9 |
| 65 | 2 1/2 | 2 1/2 | 305 | 16 | 74.2 | 88 | 95 | 305 | 130 | 11 | 305 | 16 | 74.2 | 88 | 95 | 450 | 135 | 12 |
| 80 | 3 | 3 | 330 | 16 | 90.15 | 104 | 114 | 450 | 135 | 13 | 330 | 16 | 90.15 | 104 | 114 | 500 | 150 | 14.3 |
| 100 | 4 | 4 | 356 | 19 | 115.8 | 126 | 146 | 600 | 150 | 26.1 | 356 | 19 | 115.8 | 126 | 146 | 600 | 160 | 27.2 |

| Nominal diameter | | | Standard Value | | | | | Reference Value | | | Standard Value | | | | | Reference Value | | |
|------------------|------------|-------|----------------|----|-------|-----|-----|-----------------|-----|-------|----------------|----|-------|-----|-----|-----------------|-----|-------|
| DN (mm) | NPS (inch) | NPT | L* | L1 | D | D2 | D1 | W | H | G(kg) | L* | L1 | D | D2 | D1 | W | H | G(kg) |
| | | | | | | | | | | | | | | | | | | |
| 15 | 1/2 | 1/2 | 165 | 10 | 21.95 | 31 | 32 | 160 | 90 | 3.7 | 190 | 10 | 21.95 | 41 | 41 | 190 | 95 | 4.3 |
| 20 | 3/4 | 3/4 | 190 | 13 | 27.3 | 36 | 38 | 190 | 100 | 4.4 | 216 | 13 | 27.3 | 46 | 46 | 220 | 100 | 4.9 |
| 25 | 1 | 1 | 216 | 13 | 34.05 | 41 | 46 | 220 | 110 | 6.1 | 254 | 13 | 34.05 | 51 | 51 | 240 | 110 | 7 |
| 32 | 1 1/4 | 1 1/4 | 229 | 13 | 42.8 | 49 | 55 | 240 | 120 | 7.2 | 279 | 13 | 42.8 | 61 | 61 | 305 | 120 | 8.1 |
| 40 | 1 1/2 | 1 1/2 | 241 | 13 | 48.9 | 59 | 63 | 305 | 130 | 8.1 | 305 | 13 | 48.9 | 70 | 70 | 325 | 130 | 9 |
| 50 | 2 | 2 | 292 | 16 | 61.35 | 73 | 76 | 325 | 135 | 9.8 | 368 | 16 | 61.35 | 88 | 88 | 450 | 135 | 10.7 |
| 65 | 2 1/2 | 2 1/2 | 330 | 16 | 74.2 | 89 | 95 | 450 | 150 | 12.6 | 419 | 16 | 74.2 | 110 | 110 | 500 | 150 | 13.4 |
| 80 | 3 | 3 | 356 | 16 | 90.15 | 105 | 114 | 550 | 160 | 14.8 | 381 | 16 | 90.15 | 128 | 128 | 650 | 165 | 16 |
| 100 | 4 | 4 | 432 | 19 | 115.8 | 132 | 146 | 650 | 180 | 28 | 457 | 19 | 115.8 | 157 | 157 | 750 | 185 | 28.7 |



Non Lubricated Plug Valve - DIN



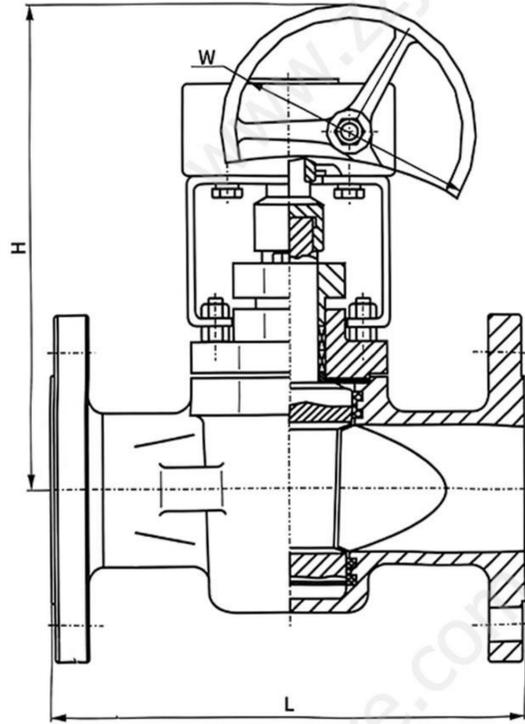
MAIN PARTS MATERIALS

| NO. | Part name | Material |
|-----|----------------|--|
| 1 | Body | GS-C251.7363, 1.4308, 1.4408, 1.4306, 1.4301 |
| 2 | Plug | GS-C251.7363, 1.4308, 1.4408, 1.4306, 1.4301 |
| 3 | Sleeve(Seat) | PTFE, PRTFE, PPL, PEEK, Nylon |
| 4 | Gasket | Flexible graphite+stainless steel, PTFE |
| 5 | Packing | PTFE |
| 6 | Bonnet | GS-C251.7363, 1.4308, 1.4408, 1.4306, 1.4301 |
| 7 | Bolt | ASTMA193-B7, A320-B8, A193-B8M |
| 8 | Nut | ASTMA194-2H, A194-8, A194-8M |
| 9 | Gland | GS-C251.7363,1.4308,1.4408,1.4306,1.4301 |
| 10 | Bolt | ASTMA193-B7, A320-B8, A193-B8M |
| 11 | Connect jacket | AISI 1045 |
| 12 | Bolt | ASTMA193-B7, A320-B8, A193-B8M |
| 13 | Gasket | AISI 1066 |
| 14 | Yoke | Q235, WCB |
| 15 | Key | AISI 1045 |
| 16 | Worm | ASTM A536 60-40-18 + other |



Non Lubricated Plug Valve

Flange Connection PN16~64



Main dimensions

X343F/X43F-16

| DN-mm | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| L | 130 | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 | 980 |
| H | 150 | 155 | 160 | 180 | 190 | 200 | 220 | 230 | 380 | 460 | 520 | 580 | 620 | 680 | 740 |
| W | 195 | 205 | 205 | 315 | 315 | 330 | 400 | 590 | 690 | 300 | 320 | 320 | 350 | 380 | 380 |

X343F/X43F-25

| DN-mm | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| L | 130 | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 | 980 |
| H | 150 | 155 | 160 | 180 | 190 | 200 | 220 | 230 | 380 | 460 | 520 | 580 | 620 | 680 | 740 |
| W | 195 | 205 | 205 | 315 | 315 | 330 | 400 | 590 | 690 | 300 | 320 | 320 | 350 | 380 | 380 |

X343F/X43F-40

| DN-mm | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| L | 130 | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 | 980 |
| H | 150 | 155 | 160 | 180 | 190 | 200 | 220 | 230 | 380 | 460 | 520 | 580 | 620 | 680 | 740 |
| W | 195 | 205 | 205 | 315 | 315 | 330 | 400 | 590 | 690 | 300 | 320 | 320 | 350 | 380 | 380 |

X343F/X43F-64

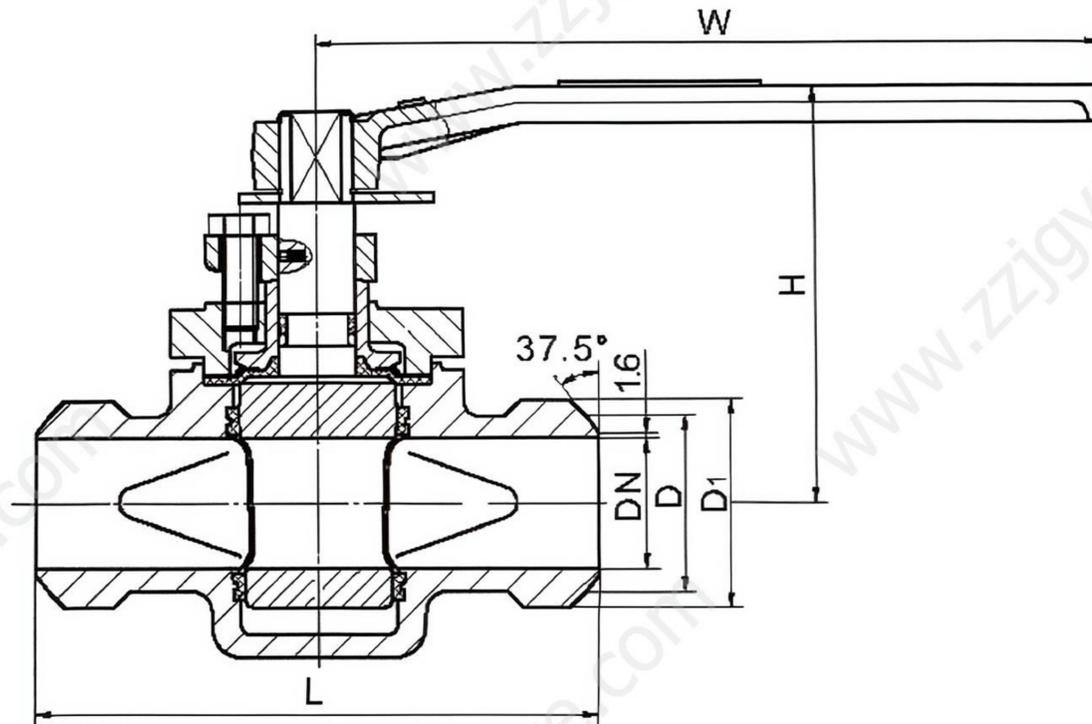
| DN-mm | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| L | 130 | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 | 980 |
| H | 150 | 155 | 160 | 180 | 190 | 200 | 220 | 230 | 380 | 460 | 520 | 580 | 620 | 680 | 740 |
| W | 195 | 205 | 205 | 315 | 315 | 330 | 400 | 590 | 690 | 300 | 320 | 320 | 350 | 380 | 380 |





Non Lubricated Plug Valve

Butt-welding Ends PN1.6~40



Main Dimensions

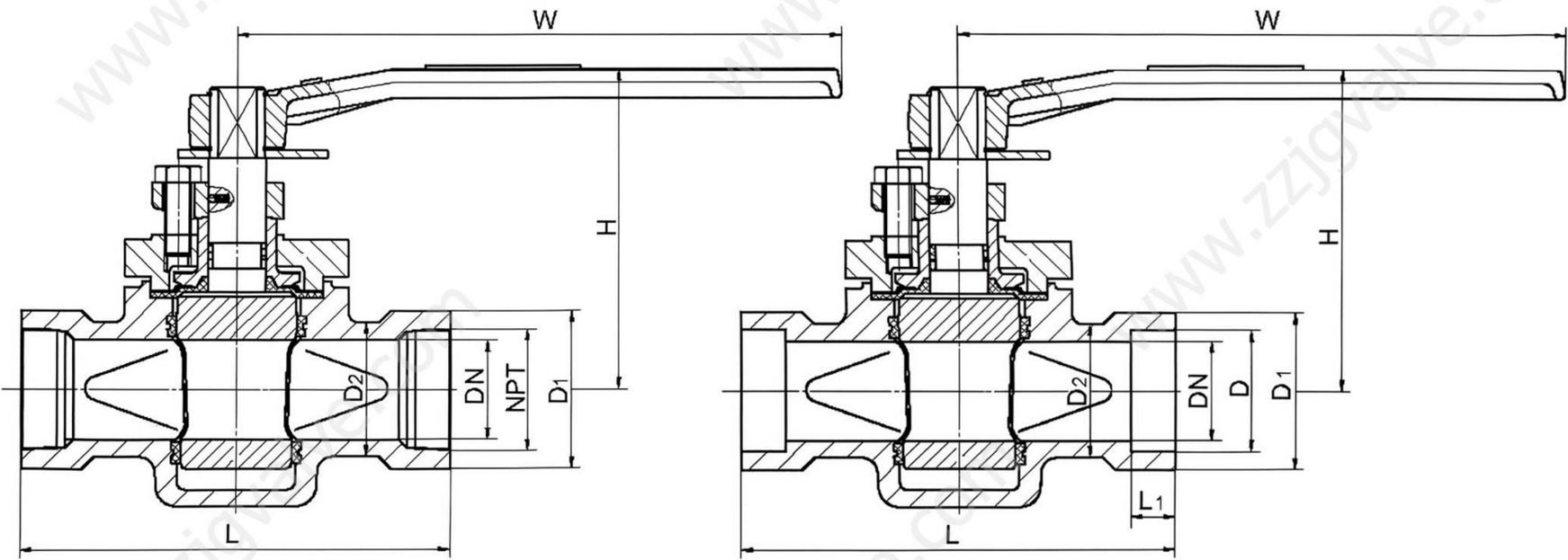
| Nominal diameter | | Standard Value | | | Reference Value | | | Standard Value | | | Reference Value | | |
|------------------|------------|----------------|-----|-----|-----------------|-----|-------|----------------|-----|-----|-----------------|-----|-------|
| DN (mm) | NPS (inch) | L | D1 | D | W | H | G(kg) | L | D1 | D | W | H | W(kg) |
| | | PN1.6~2.5(MPa) | | | | | | PN4.0(MPa) | | | | | |
| 15 | 1/2 | 130 | 28 | 25 | 160 | 85 | 3.3 | 130 | 28 | 25 | 160 | 85 | 3.5 |
| 20 | 3/4 | 150 | 33 | 30 | 160 | 85 | 4.2 | 150 | 33 | 30 | 190 | 90 | 4.4 |
| 25 | 1 | 160 | 38 | 35 | 190 | 90 | 5.8 | 160 | 38 | 35 | 190 | 100 | 6.3 |
| 32 | 1 1/4 | 180 | 45 | 42 | 190 | 100 | 6.8 | 180 | 45 | 42 | 240 | 110 | 7.3 |
| 40 | 1 1/2 | 200 | 56 | 50 | 240 | 110 | 8 | 200 | 56 | 50 | 305 | 120 | 8.5 |
| 50 | 2 | 230 | 70 | 62 | 305 | 120 | 9.1 | 230 | 70 | 62 | 305 | 130 | 9.7 |
| 65 | 2 1/2 | 290 | 88 | 75 | 305 | 130 | 11.8 | 290 | 88 | 75 | 450 | 135 | 12.4 |
| 80 | 3 | 310 | 104 | 91 | 450 | 135 | 13.4 | 310 | 104 | 91 | 500 | 150 | 14.4 |
| 100 | 4 | 350 | 126 | 117 | 600 | 150 | 26.1 | 350 | 126 | 117 | 600 | 160 | 27.2 |
| | | PN10.0(MPa) | | | | | | PN16.0(MPa) | | | | | |
| 15 | 1/2 | 165 | 31 | 25 | 160 | 90 | 4.1 | 165 | 41 | 25 | 190 | 95 | 4.4 |
| 20 | 3/4 | 190 | 36 | 30 | 190 | 100 | 4.9 | 190 | 46 | 30 | 220 | 100 | 5.3 |
| 25 | 1 | 216 | 41 | 35 | 220 | 110 | 6.6 | 216 | 51 | 35 | 240 | 110 | 7 |
| 32 | 1 1/4 | 229 | 49 | 42 | 240 | 120 | 7.7 | 229 | 61 | 42 | 305 | 120 | 8.1 |
| 40 | 1 1/2 | 241 | 59 | 50 | 305 | 130 | 8.6 | 241 | 70 | 50 | 325 | 130 | 9.1 |
| 50 | 2 | 292 | 73 | 62 | 325 | 135 | 10.2 | 292 | 88 | 62 | 450 | 135 | 10.7 |
| 65 | 2 1/2 | 330 | 89 | 75 | 450 | 150 | 13.1 | 330 | 110 | 75 | 550 | 150 | 13.7 |
| 80 | 3 | 356 | 105 | 91 | 550 | 160 | 15.5 | 356 | 128 | 91 | 650 | 165 | 16.2 |
| 100 | 4 | 432 | 132 | 117 | 650 | 180 | 28 | 432 | 157 | 117 | 750 | 185 | 28.7 |





Non Lubricated Plug Valve

Socket-welding Ends, Screw Thread Ends PN1.6~40



Main Dimensions

| Nominal diameter | | | Standard Value | | | | | Reference Value | | | Standard Value | | | | | Reference Value | | | | | | | | | | |
|------------------|------------|-------|----------------|----|-------|-----|-----|-----------------|-----|-------|----------------|----|-------|-----|-----|-----------------|-----|-------|------------|--|--|--|--|--|--|--|
| DN (mm) | NPS (inch) | NPT | L* | L1 | D | D2 | D1 | W | H | G(kg) | L* | L1 | D | D2 | D1 | W | H | G(kg) | | | | | | | | |
| | | | | | | | | | | | PN1.6~2.5(MPa) | | | | | | | | PN4.0(MPa) | | | | | | | |
| 15 | 1/2 | 1/2 | 130 | 10 | 21.95 | 28 | 32 | 160 | 85 | 3.3 | 130 | 10 | 21.95 | 28 | 32 | 160 | 85 | 3.5 | | | | | | | | |
| 20 | 3/4 | 3/4 | 150 | 13 | 27.3 | 33 | 38 | 160 | 85 | 4.2 | 150 | 13 | 27.3 | 33 | 38 | 190 | 90 | 4.4 | | | | | | | | |
| 25 | 1 | 1 | 160 | 13 | 34.05 | 38 | 46 | 190 | 90 | 5.8 | 160 | 13 | 34.05 | 38 | 46 | 190 | 100 | 6.3 | | | | | | | | |
| 32 | 1 1/4 | 1 1/4 | 180 | 13 | 42.8 | 45 | 55 | 190 | 100 | 6.8 | 180 | 13 | 42.8 | 45 | 55 | 240 | 110 | 7.3 | | | | | | | | |
| 40 | 1 1/2 | 1 1/2 | 200 | 13 | 48.9 | 56 | 63 | 240 | 110 | 8 | 200 | 13 | 48.9 | 56 | 63 | 305 | 120 | 8.5 | | | | | | | | |
| 50 | 2 | 2 | 230 | 16 | 61.35 | 70 | 76 | 305 | 120 | 9.1 | 230 | 16 | 61.35 | 70 | 76 | 305 | 130 | 9.7 | | | | | | | | |
| 65 | 2 1/2 | 2 1/2 | 290 | 16 | 74.2 | 88 | 95 | 305 | 130 | 11.8 | 290 | 16 | 74.2 | 88 | 95 | 450 | 135 | 12.4 | | | | | | | | |
| 80 | 3 | 3 | 310 | 16 | 90.15 | 104 | 114 | 450 | 135 | 13.8 | 310 | 16 | 90.15 | 104 | 114 | 500 | 150 | 14.4 | | | | | | | | |
| 100 | 4 | 4 | 350 | 19 | 115.8 | 126 | 146 | 600 | 150 | 26.1 | 350 | 19 | 115.8 | 126 | 146 | 600 | 160 | 27.2 | | | | | | | | |

| Nominal diameter | | | Standard Value | | | | | Reference Value | | | Standard Value | | | | | Reference Value | | | | | | | | | | |
|------------------|------------|-------|----------------|----|-------|-----|-----|-----------------|-----|-------|----------------|----|-------|-----|-----|-----------------|-----|-------|-------------|--|--|--|--|--|--|--|
| DN (mm) | NPS (inch) | NPT | L* | L1 | D | D2 | D1 | W | H | G(kg) | L* | L1 | D | D2 | D1 | W | H | G(kg) | | | | | | | | |
| | | | | | | | | | | | PN10.0(MPa) | | | | | | | | PN16.0(MPa) | | | | | | | |
| 15 | 1/2 | 1/2 | 165 | 10 | 21.95 | 31 | 32 | 160 | 90 | 4.1 | 165 | 10 | 21.95 | 41 | 41 | 190 | 95 | 4.4 | | | | | | | | |
| 20 | 3/4 | 3/4 | 190 | 13 | 27.3 | 36 | 38 | 190 | 100 | 4.9 | 190 | 13 | 27.3 | 46 | 46 | 220 | 100 | 5.3 | | | | | | | | |
| 25 | 1 | 1 | 216 | 13 | 34.05 | 41 | 46 | 220 | 110 | 6.6 | 216 | 13 | 34.05 | 57 | 57 | 240 | 110 | 7.0 | | | | | | | | |
| 32 | 1 1/4 | 1 1/4 | 229 | 13 | 42.8 | 49 | 55 | 240 | 120 | 7.7 | 229 | 13 | 42.8 | 61 | 61 | 305 | 120 | 8.1 | | | | | | | | |
| 40 | 1 1/2 | 1 1/2 | 241 | 13 | 48.9 | 59 | 63 | 305 | 130 | 8.6 | 241 | 13 | 48.9 | 70 | 70 | 325 | 130 | 9.1 | | | | | | | | |
| 50 | 2 | 2 | 292 | 16 | 61.35 | 73 | 76 | 325 | 135 | 10.2 | 292 | 16 | 61.35 | 88 | 88 | 450 | 135 | 10.7 | | | | | | | | |
| 65 | 2 1/2 | 2 1/2 | 330 | 16 | 74.2 | 89 | 95 | 450 | 150 | 13.1 | 330 | 16 | 74.2 | 110 | 110 | 550 | 150 | 13.7 | | | | | | | | |
| 80 | 3 | 3 | 356 | 16 | 90.15 | 105 | 114 | 550 | 160 | 15.5 | 356 | 16 | 90.15 | 128 | 128 | 650 | 165 | 16.2 | | | | | | | | |
| 100 | 4 | 4 | 432 | 19 | 115.8 | 132 | 146 | 650 | 180 | 28 | 432 | 19 | 115.8 | 157 | 157 | 750 | 185 | 28.7 | | | | | | | | |