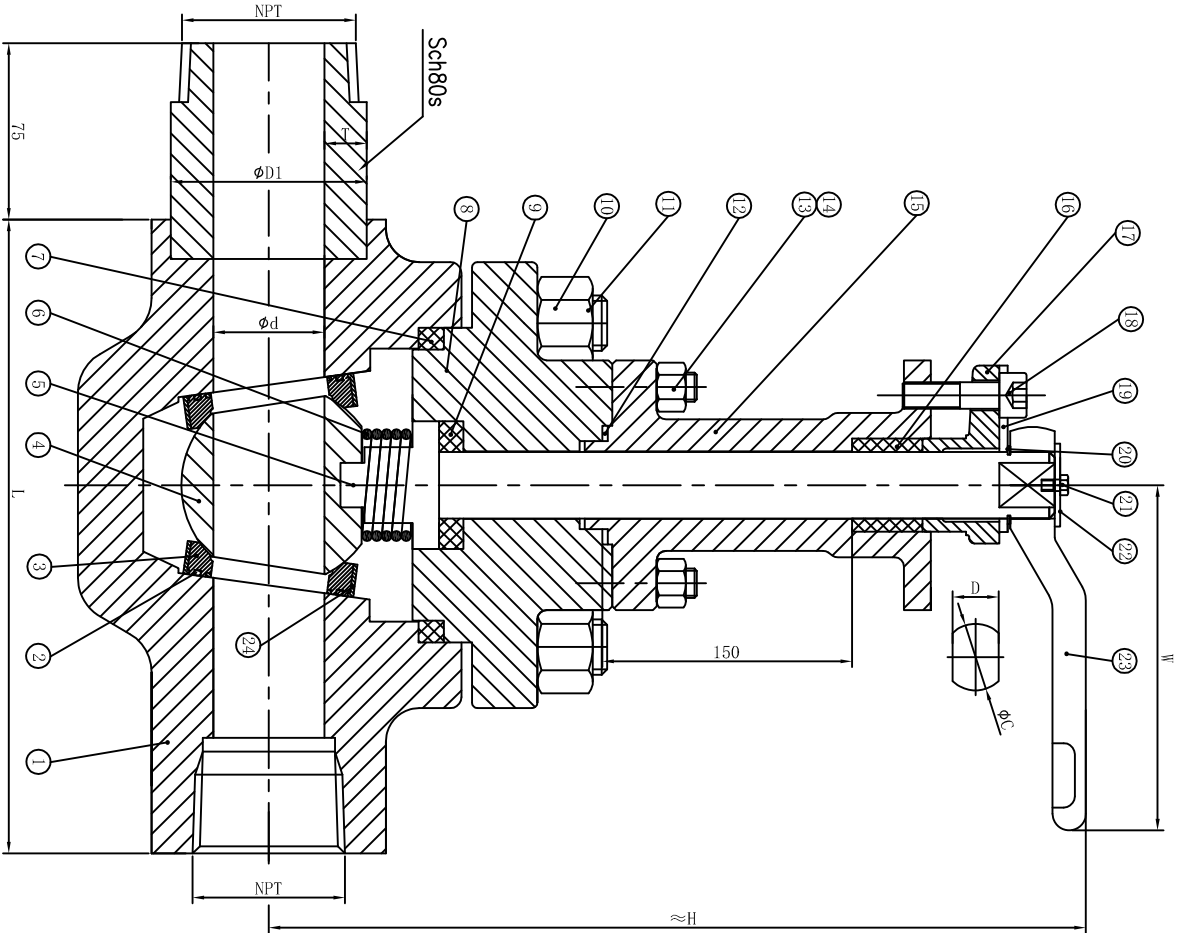




| NPS  | d  | NPT  | D1   | T    | L   | C  | D  | W   | H   | Weight(kg) |
|------|----|------|------|------|-----|----|----|-----|-----|------------|
| 1/2" | 15 | 1/2" | 21.3 | 3.73 | 100 | 14 | 11 | 200 | 260 | 3.66       |

|     |                   |                   |
|-----|-------------------|-------------------|
| 24  | Support ring      | A276 316          |
| 23  | Handle Assy       | Provided by Korea |
| 22  | Gasket            | SS                |
| 21  | Hexagon head Bolt | A193 B8M          |
| 20  | Elastic Back Ring | SS                |
| 19  | Stop Plane        | SS                |
| 18  | Wrench Bolt       | A193 B8M          |
| 17  | Packing Gland     | A182 F316         |
| 16  | Packing           | GRAPHITE          |
| 15  | Yoke              | A182 F316/F316L   |
| 14  | Nut               | A194 8M           |
| 13  | Bolt              | A193 B8M          |
| 12  | Gasket            | 316L+GRAPHITE     |
| 11  | Bolt              | A193 B8M          |
| 10  | Nut               | A194 8M           |
| 9   | Thrust Bearing    | 316+N             |
| 8   | Bonnet            | A182 F316/F316L   |
| 7   | Gasket            | 316L+GRAPHITE     |
| 6   | Spring            | Inconel X-750     |
| 5   | Stem              | A276 316          |
| 4   | Ball              | A276 316          |
| 3   | Seat              | PEEK              |
| 2   | O-Ring            | VITON(AED)        |
| 1   | Body              | A182 F316/F316L   |
| NO. | PART NAME         | MATERIAL          |

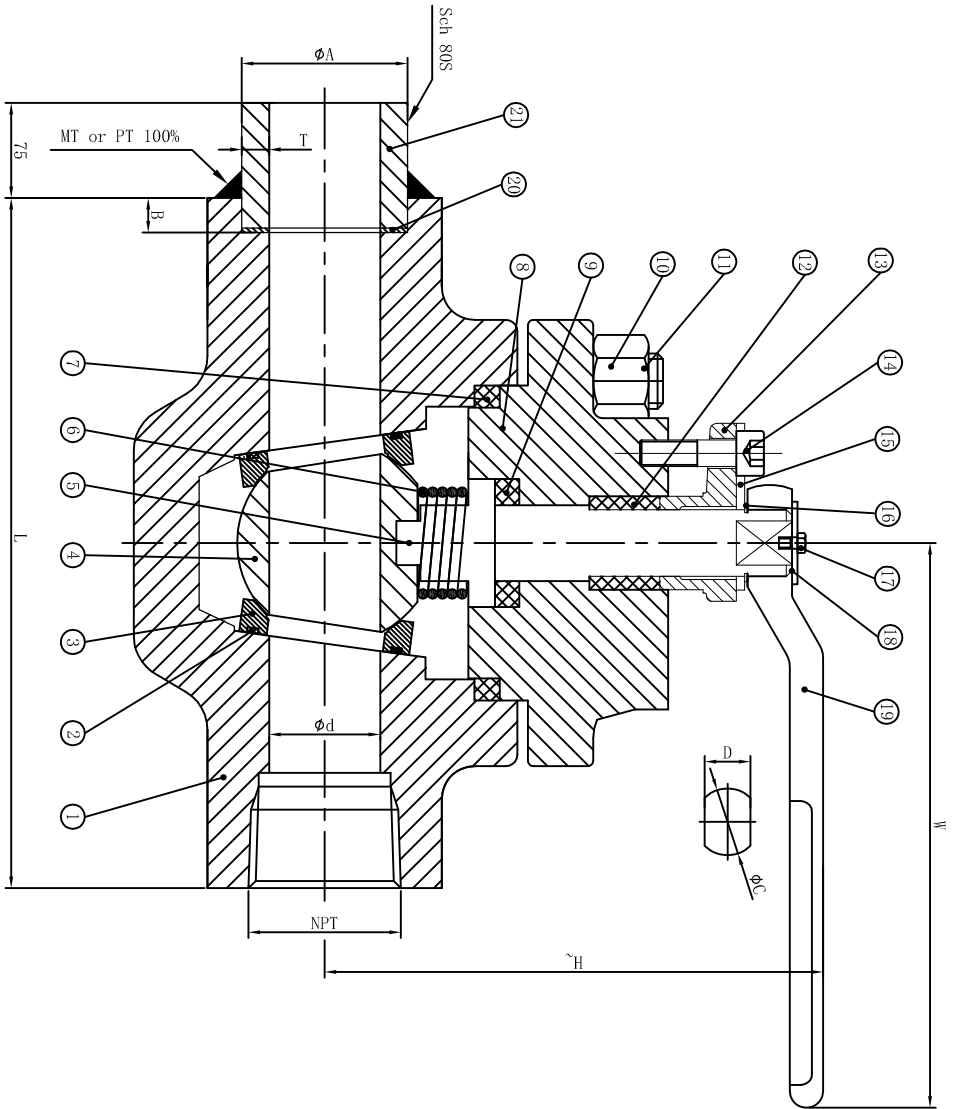
|                        |            |            |          |
|------------------------|------------|------------|----------|
| PRESSURE TEST (MPa)    |            |            |          |
| Rating                 | SHELL TEST | SEAT TEST  | AIR TEST |
| 600LB                  | 15.4       | 11.3       | 0.6      |
| APPLICABLE TEMPERATURE |            | -29 ~200°C |          |
| APPLICABLE MEDIA       |            | W.O.G      |          |

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|                            |                      |
|----------------------------|----------------------|
| TECHNICAL SPECIFICATIONS   |                      |
| 1. DESIGN AND MANUFACTURE  | API 608              |
| 2. FACE TO FACE DIMENSIONS | Enterprise standards |
| 3. TEMP. & PRESSURE        | ASME B16.34          |
| 4. THREADED UNITS          | ASME B1.20.1         |
| 5. TEST & INSPECTION       | API 598              |
| 6. CA:                     | 1.5mm                |

|                                              |  |           |                                                            |         |                |
|----------------------------------------------|--|-----------|------------------------------------------------------------|---------|----------------|
| Top Entry Ball Valve<br>600# A182 F316/F316L |  |           | Painting color requirement: N/A<br>NDE requirement: PT, UT |         |                |
| Model                                        |  | Order NO. | Not proportional drawing                                   |         |                |
| Drawing NO.                                  |  |           | DRAWN                                                      | ZT      | DATE 10/7/2021 |
|                                              |  |           | CHECKED                                                    | MLK/MON | DATE 10/7/2021 |
| REV.0                                        |  |           | APPROVED                                                   | DJUN    | DATE 10/7/2021 |
| DISCUSSION                                   |  |           |                                                            |         |                |

| NPS  | d  | NPT  | A    | T    | B    | L   | C  | D  | Sch | W   | H   | Weight(kg) |
|------|----|------|------|------|------|-----|----|----|-----|-----|-----|------------|
| 3/4" | 20 | 3/4" | 26.7 | 5.56 | 12.5 | 110 | 14 | 11 | 160 | 200 | 115 | 3.16       |



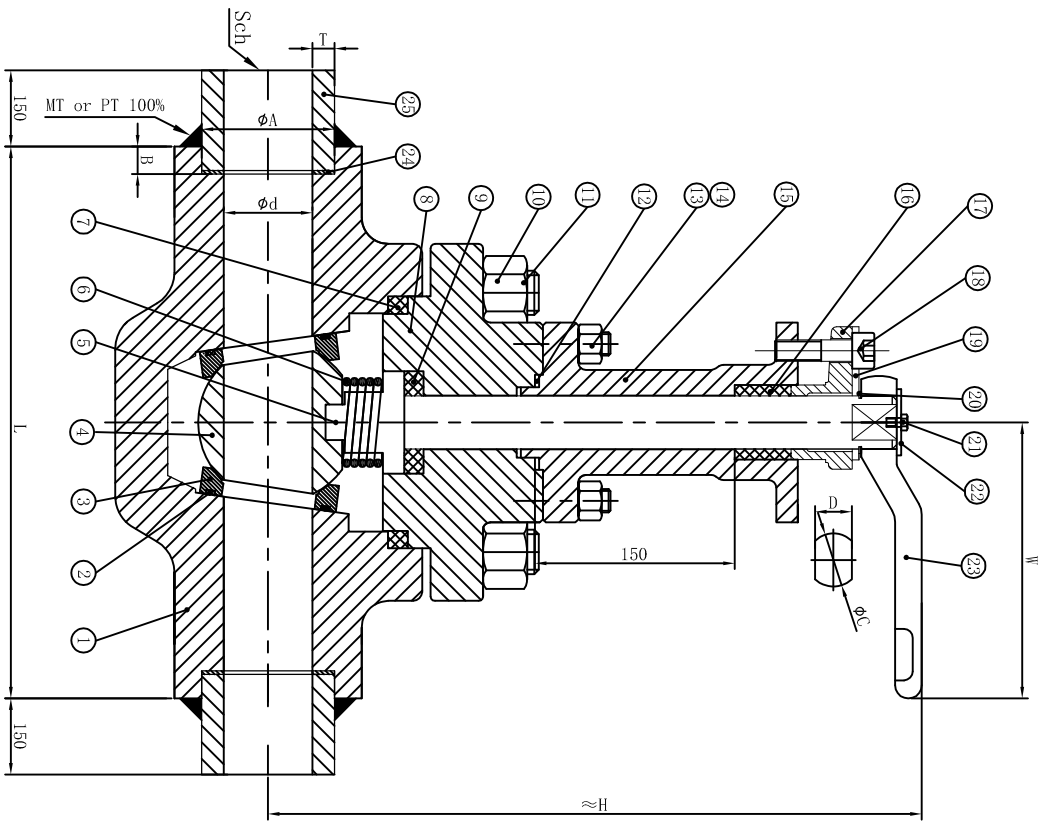
|     |                   |                        |
|-----|-------------------|------------------------|
| 21  | Pipe              | A333-6                 |
| 20  | Gap Ring          | SS (Provided by Korea) |
| 19  | Handle Assy       | Provided by Korea      |
| 18  | Gasket            | C.S                    |
| 17  | Hexagon head Bolt | A320 L7 (Galvanize)    |
| 16  | ELASTIC BACK RING | A29 1566               |
| 15  | Stop Plane        | C.S                    |
| 14  | Wrench Bolt       | A320 L7 (phosphating)  |
| 13  | Packing Gland     | A350 LF2 CL. 1         |
| 12  | Packing           | GRAPHITE               |
| 11  | Bolt              | A320 L7 (Galvanize)    |
| 10  | Nut               | A194 7 (Galvanize)     |
| 9   | Thrust Bearing    | 316+N                  |
| 8   | Bonnet            | A350 LF2 CL. 1         |
| 7   | Gasket            | 316L+GRAPHITE          |
| 6   | Spring            | Inconel X-750          |
| 5   | Stem              | A276 316               |
| 4   | Ball              | A276 316+CCC           |
| 3   | Seat              | A276 316+CCC           |
| 2   | Gasket            | GRAPHITE               |
| 1   | Body              | A350 LF2 CL. 1         |
| NO. | PART NAME         | MATERIAL               |

|                        |            |           |          |
|------------------------|------------|-----------|----------|
| Rating                 |            |           |          |
| PRESSURE TEST (MPa)    |            |           |          |
| 600LB                  | SHELL TEST | SEAT TEST | AIR TEST |
|                        | 15.4       | 11.3      | 0.6      |
| APPLICABLE TEMPERATURE |            |           |          |
| -29~345°C              |            |           |          |
| APPLICABLE MEDIA       |            |           |          |
| W.O.G                  |            |           |          |

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|                                 |  |                      |
|---------------------------------|--|----------------------|
| TECHNICAL SPECIFICATIONS        |  | API 608              |
| 1. DESIGN AND MANUFACTURE       |  | Enterprise standards |
| 2. FACE TO FACE DIMENSIONS      |  | ASME B16.34          |
| 3. TEMP. & PRESSURE             |  | ASME B1.20.1         |
| 4. THREADED UNITS               |  | API 598              |
| 5. TEST & INSPECTION            |  | ASME B16.11          |
| 6. SOCKET WELDING UNITS         |  | -50°C                |
| 7. IMPACT TEST AT SPECIAL TEMP. |  | 3.0mm                |
| 8. CA:                          |  |                      |

|                                            |  |             |  |                          |  |                                                            |  |                |  |
|--------------------------------------------|--|-------------|--|--------------------------|--|------------------------------------------------------------|--|----------------|--|
| Model                                      |  |             |  | Order NO.                |  | Painting color requirement: N/A<br>NDE requirement: PT, UT |  |                |  |
| Drawing NO.                                |  |             |  | Not proportional drawing |  |                                                            |  |                |  |
| REV.00                                     |  |             |  | DRAWN                    |  | Z.T                                                        |  | DATE 10/7/2023 |  |
|                                            |  |             |  | CHECKED                  |  | M.L.K/MON                                                  |  | DATE 10/7/2023 |  |
|                                            |  | DESCRIPTION |  | APPROVED                 |  | D.JUN                                                      |  | DATE 10/7/2023 |  |
| Top Entry Ball Valve<br>600# A350 LF2 CL.1 |  |             |  |                          |  |                                                            |  |                |  |



| NPS  | d  | A    | T    | B  | L   | C  | D  | Sch | W   | H   | Weight(kg) |
|------|----|------|------|----|-----|----|----|-----|-----|-----|------------|
| 1/2" | 15 | 21.3 | 7.47 | 10 | 130 | 18 | 14 | XXS | 250 | 290 | 7.3        |

|     |                   |                          |
|-----|-------------------|--------------------------|
| 25  | Pipe              | A335 P11                 |
| 24  | Gap Ring          | SS(Provided by Korea)    |
| 23  | Handle Assy       | Provided by Korea        |
| 22  | Gasket            | C. S                     |
| 21  | Hexagon head Bolt | A193 B16                 |
| 20  | ELASTIC BACK RING | A29 1566                 |
| 19  | Stop Plane        | C. S                     |
| 18  | Wrench Bolt       | A193 B16                 |
| 17  | Packing Gland     | A182 F11 CL. 2           |
| 16  | Packing           | GRAPHITE                 |
| 15  | Yoke              | A182 F11 CL. 2           |
| 14  | Nut               | A194 7 (Non galvanized)  |
| 13  | Bolt              | A193 B16(Non galvanized) |
| 12  | Gasket            | 316I+GRAPHITE            |
| 11  | Bolt              | A193 B16(Non galvanized) |
| 10  | Nut               | A194 7 (Non galvanized)  |
| 9   | Thrust Bearing    | 316+N                    |
| 8   | Bonnet            | A182 F11 CL. 2           |
| 7   | Gasket            | 316I+GRAPHITE            |
| 6   | Spring            | Inconel X-750            |
| 5   | Stem              | A276 316                 |
| 4   | Ball              | A276 316+CCC             |
| 3   | Seat              | A276 316+CCC             |
| 2   | Gasket            | GRAPHITE                 |
| 1   | Body              | A182 F11 CL. 2           |
| NO. | PART NAME         | MATERIAL                 |

|                        |            |           |          |
|------------------------|------------|-----------|----------|
| Rating                 |            |           |          |
| PRESSURE TEST (MPa)    |            |           |          |
| 2500LB                 | SHELL TEST | SEAT TEST | AIR TEST |
|                        | 64.7       | 47.4      | 0.6      |
| APPLICABLE TEMPERATURE |            | -29~350°C |          |
| APPLICABLE MEDIA       |            | W.O.G     |          |

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|----------------------------|--|----------------------|
| TECHNICAL SPECIFICATIONS   |  | API 608              |
| 1. DESIGN AND MANUFACTURE  |  | Enterprise standards |
| 2. FACE TO FACE DIMENSIONS |  | ASME B16.34          |
| 3. TEMP. & PRESSURE        |  | ASME B16.11          |
| 4. SOCKET WELDING UNITS    |  | API 598              |
| 5. TEST & INSPECTION       |  | 4.5mm                |
| 6. CA:                     |  |                      |

|                                             |  |            |           |                                                            |                          |          |  |  |
|---------------------------------------------|--|------------|-----------|------------------------------------------------------------|--------------------------|----------|--|--|
| Top Entry Ball Valve<br>2500# A182 F11 CL.2 |  |            |           | Painting color requirement: N/A<br>NDE requirement: PT, UT |                          |          |  |  |
| Model                                       |  |            | Order No. |                                                            | Not proportional drawing |          |  |  |
| Drawing NO.                                 |  |            |           |                                                            |                          |          |  |  |
|                                             |  |            | DRAWN     | ZLT                                                        | DATE                     | 19072021 |  |  |
|                                             |  |            | CHECKED   | MLK/MON                                                    | DATE                     | 19072021 |  |  |
| REV. NO.                                    |  | DISCUSSION | APPROVED  | DJUN                                                       | DATE                     | 19072021 |  |  |