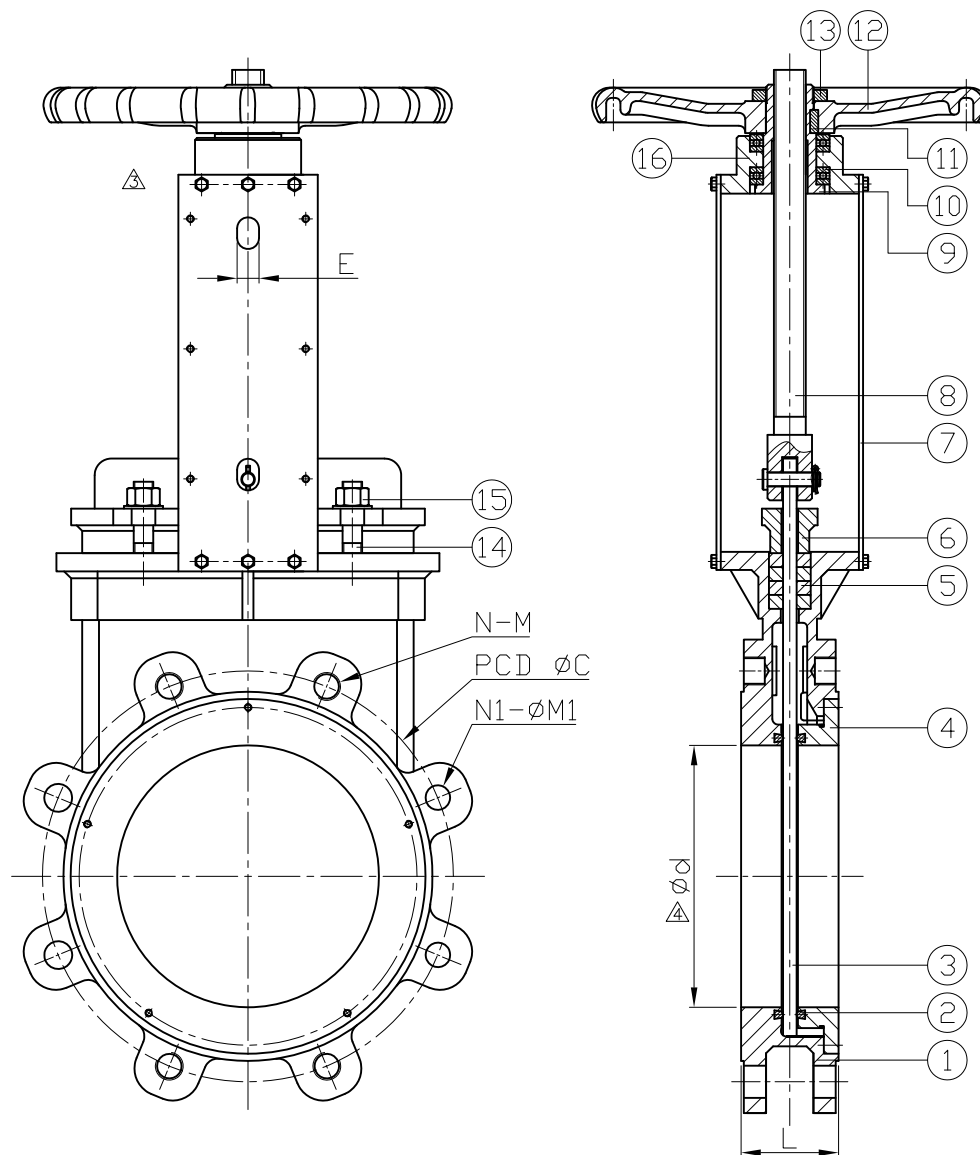




## FEATURES :

- Design and manufacture: MSS SP-81
- End connection: EN 1092-1
- Face to face dimensions: MSS SP-81

| DN  | d     | d Tolerance | C   | L   | E  | N | M   | N1 | M1 |
|-----|-------|-------------|-----|-----|----|---|-----|----|----|
| 50  | -     | -           | 125 | 48  | 14 | 2 | M16 | 2  | 18 |
| 65  | -     | -           | 145 | 48  | 14 | 2 | M16 | 2  | 18 |
| 80  | 72.5  | ±1.5        | 160 | 51  | 14 | 2 | M16 | 6  | 18 |
| 100 | 94    | ±2          | 180 | 51  | 14 | 2 | M16 | 6  | 18 |
| 125 | 117.4 | ±2          | 210 | 57  | 14 | 2 | M16 | 6  | 18 |
| 150 | 140.7 | ±2          | 240 | 57  | 14 | 2 | M20 | 6  | 22 |
| 200 | 187   | ±3          | 295 | 70  | 14 | 2 | M20 | 6  | 22 |
| 250 | 233   | ±3          | 350 | 70  | 14 | 4 | M20 | 8  | 22 |
| 300 | 280   | ±3          | 400 | 76  | 14 | 4 | M20 | 8  | 22 |
| 350 | 330   | ±4          | 460 | 76  | 14 | 6 | M20 | 10 | 22 |
| 400 | 367   | ±4          | 515 | 89  | 14 | 6 | M24 | 10 | 26 |
| 450 | 415   | ±4          | 565 | 89  | 14 | 8 | M24 | 12 | 26 |
| 500 | 455   | ±4          | 620 | 114 | 14 | 8 | M24 | 12 | 26 |
| 600 | -     | -           | 725 | 114 | 14 | 8 | M27 | 12 | 30 |

unit:mm

| NPS    | d     | d Tolerance | C     | L    | E    | N | M   | N1 | M1   |
|--------|-------|-------------|-------|------|------|---|-----|----|------|
| 2"     | -     | -           | 4.92  | 1.89 | 0.55 | 2 | M16 | 2  | 0.71 |
| 2-1/2" | -     | -           | 5.71  | 1.89 | 0.55 | 2 | M16 | 2  | 0.71 |
| 3"     | 2.85  | ±0.06       | 6.3   | 2.01 | 0.55 | 2 | M16 | 6  | 0.71 |
| 4"     | 3.7   | ±0.08       | 7.09  | 2.01 | 0.55 | 2 | M16 | 6  | 0.71 |
| 5"     | 4.62  | ±0.08       | 8.27  | 2.24 | 0.55 | 2 | M16 | 6  | 0.71 |
| 6"     | 5.54  | ±0.08       | 9.45  | 2.24 | 0.55 | 2 | M20 | 6  | 0.87 |
| 8"     | 7.36  | ±0.12       | 11.61 | 2.76 | 0.55 | 2 | M20 | 6  | 0.87 |
| 10"    | 9.17  | ±0.12       | 13.78 | 2.76 | 0.55 | 4 | M20 | 8  | 0.87 |
| 12"    | 11.02 | ±0.12       | 15.75 | 2.99 | 0.55 | 4 | M20 | 8  | 0.87 |
| 14"    | 12.99 | ±0.16       | 18.11 | 2.99 | 0.55 | 6 | M20 | 10 | 0.87 |
| 16"    | 14.45 | ±0.16       | 20.28 | 3.5  | 0.55 | 6 | M24 | 10 | 1.02 |
| 18"    | 16.34 | ±0.16       | 22.24 | 3.5  | 0.55 | 8 | M24 | 12 | 1.02 |
| 20"    | 17.91 | ±0.16       | 24.41 | 4.49 | 0.55 | 8 | M24 | 12 | 1.02 |
| 24"    | -     | -           | 28.54 | 4.49 | 0.55 | 8 | M27 | 12 | 1.18 |

unit:in

| ITEM | PARTS         | MATERIAL       |
|------|---------------|----------------|
| 1    | BODY          | ASTM A351-CF8M |
| 2    | SEAT          | EPDM           |
| 3    | DISC          | SS 316L        |
| 4    | SEAT RETAINER | ASTM A351-CF8M |
| 5    | PACKING       | PTFE           |
| 6    | GLAND         | ASTM A351-CF8M |
| 7    | YOKE          | SS 316         |
| 8    | STEM          |                |
| 9    | YOKE SLEEVE   | COPPER ALLOY   |
| 10   | BEARING       | GCr15          |
| 11   | KEY           | 1045           |
| 12   | HANDWHEEL     | KTH350-10      |
| 13   | LOCK NUT      | 1035           |
| 14   | STUD          | ASTM A193-B8M  |
| 15   | NUT           | ASTM A194-8M   |
| 16   | TOP SET       | SS 316         |

|        |                                       |            |         |
|--------|---------------------------------------|------------|---------|
| △      | Add dimension                         | 09/04/2023 | Ray     |
| △      | Revise drawing & dimension & material | 05/15/2023 | Yuan    |
| △      | Add dimension                         | 02/16/2023 | Yuan    |
| △      | Add dimension                         | 10/31/2022 | Yuan    |
| Revise | Description                           | Date       | Approve |

DRAWING NO.

2092382LN-23B



BRØDRENE DAHL

CHECK BY

DRAWING BY

DATE

SPECIFICATION

Knife Gate Valve PN10

Yuan

Sep.04.2023

MATERIAL

CF8M

PROCESS/Nr.

UNIT / SCALE

mm

