



SHIN NAN

SHIN NAN CASTING FACTORY CO., LTD.

GATE VALVES

閘 閥

興南鑄造廠股份有限公司

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Non-rising stem single wedge disc gate valve

非昇桿式閘閥

APPLICATION 用途

This series of gate valve is installed in pipeline system as a closing device.
本系列閘閥安裝在管路上，作為關閉管線設備使用。

FEATURES 特點

1. High reliability of strength and rigidity.
高可靠性之強度、剛度設計。
2. The sealing is copper alloy which is wear-resisting and has long life.
座封副材料為銅合金，耐磨損，壽命長。
3. Low flow resisting coefficient.
開啟時，通道中無其它零件，流阻系數低。
4. Both installation directions performed the same function.
兩側法蘭安裝方向任意，閥的性能一樣。
5. Equipped with gear box, easy for operation.
附上減速裝置，開關時很省力。
6. The stem does not rise during operation of the valve, this is useful whenever height is restricted.
該閥開啟時，閥桿不升起，適用於安裝高度受限制之場所。



CONTROL METHOD 傳動方式

The valves are available for various operation method e.g. hand operating or gear box with electric actuator.
本產品適用於各種傳動方式。如手動、電動。

EMPLOYED STANDARDS 執行標準

- ◆ Design, manufacture are according to standards of BS 5163:1986 and BS 5150:1990.
產品設計、製造依據 BS 5163:1986 及 BS 5150:1990
- ◆ Flange drilling is according to BS 4504-section 3.2:1989.
法蘭連接尺寸：BS 4504-section 3.2:1989
- ◆ Inspection is according to standard BS 6755-part 1-rate A.
壓力試驗：BS 6755-part 1 密封等級 A 級

Note: The valves can be made according to GB, ISO, JIS, DIN, AWWA, CNS etc..
註：根據用戶要求，本產品也可按 GB、ISO、JIS、DIN、AWWA、CNS 或非標準等設計製造。

SPECIFICATIONS 性能規範

| | | | |
|-----------------------------------|----------------|-----|------|
| Nominal pressure 公稱壓力 (MPa) | 1.0 | 1.6 | |
| Testing pressure 試驗壓力 (MPa) | Shell 殼體 | 1.5 | 2.4 |
| | Seal 密封 | 1.1 | 1.76 |
| Working pressure 工作壓力 (MPa) | 1.0 | 1.6 | |
| Suitable medium 適用介質 | Water 水 | | |
| Suitable temperature 適用溫度 (°C) | ≤100 | | |
| Direction of mounting 安裝方式 | Vertical 立式 | | |

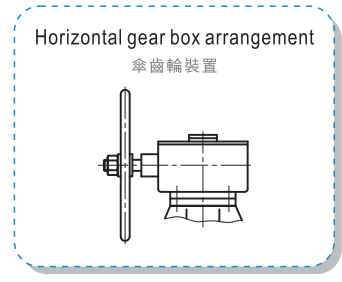
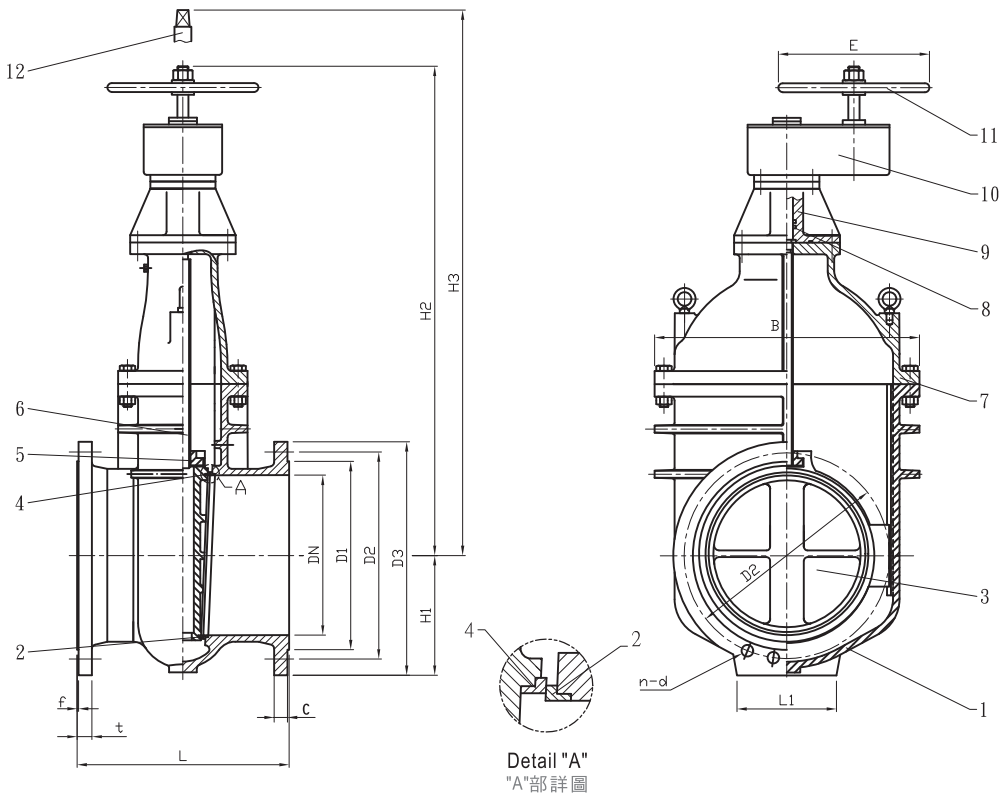
MATERIALS OF MAIN PARTS 主要零件材料

| Materials of main parts 零件名稱 | Material 材料 |
|---------------------------------|--|
| Body 閥體 | Ductile iron、Grey cast iron 球墨鑄鐵、灰口鑄鐵 |
| Disc 閘門 | Ductile iron、Grey cast iron 球墨鑄鐵、灰口鑄鐵 |
| Bonnet 閘蓋 | Ductile iron、Grey cast iron 球墨鑄鐵、灰口鑄鐵 |
| Disc seat 閘門密封圈 | Gunmetal 青銅 |
| Body disc seat 閘體座封 | Gunmetal 青銅 |
| Spindle 閘桿 | Stainless steel 不銹鋼 |
| Spindle nut 閘桿螺帽 | Gunmetal 青銅 |
| Stuffing box 填料函 | Ductile iron、Grey cast iron 球墨鑄鐵、灰口鑄鐵 |
| O-ring O型油封 | Synthetic rubber 合成橡膠 |

Note: Other materials are available upon request.
註：其他材料依用戶要求。

Main dimensions and masses

DN 300~700 主要外形尺寸、連接尺寸及質量



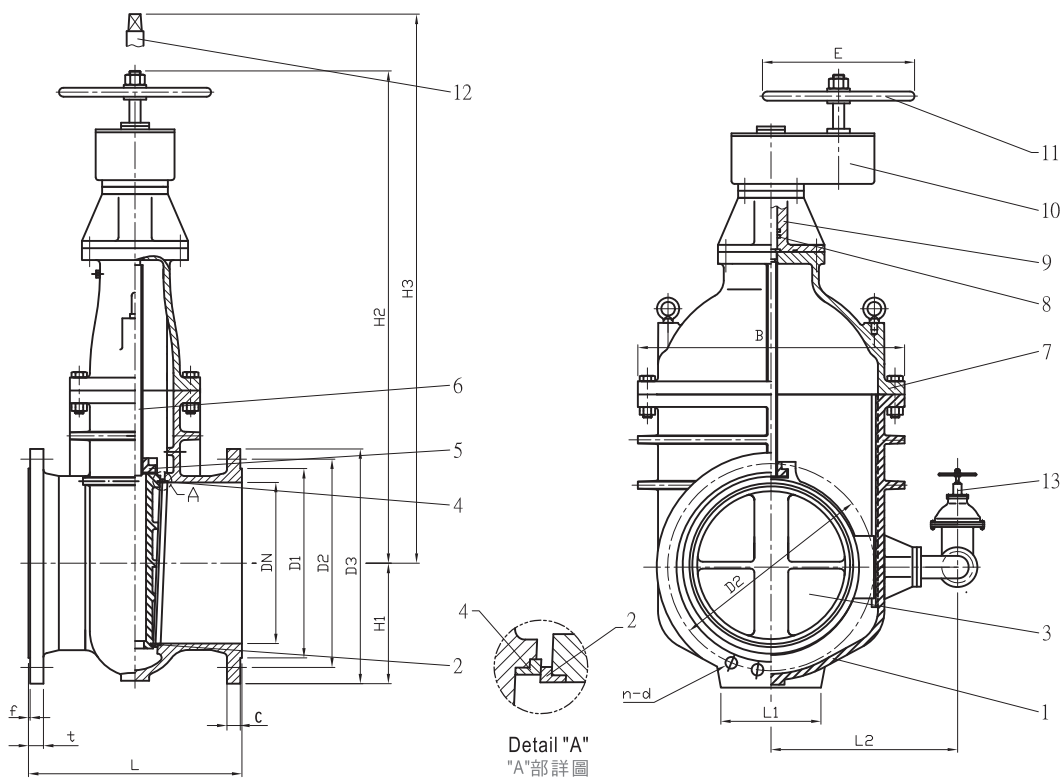
- ① Body 閥體
- ② Body seat 閥體座封
- ③ Disc 閘門
- ④ Disc seat 閘門座封
- ⑤ Spindle nut 閘桿螺帽
- ⑥ Spindle 閘桿
- ⑦ Bonnet 閘蓋
- ⑧ O-ring O型油封
- ⑨ Stuffing box 填料函
- ⑩ Gearing box 傳動裝置
- ⑪ Handwheel 手輪
- ⑫ Square cap 傳動帽

Unit : mm

| DN | PN | D1 | D2 | D3 | t | f | n-d | L | L1 | H1 | H2 | H3 | B | C | E |
|-----|-----|-----|-----|-----|------|---|--------|-----|-----|-----|------|------|------|----|-----|
| 300 | 1.0 | 370 | 400 | 445 | 24.5 | 4 | 12-Φ23 | 356 | 280 | 248 | 969 | 869 | 536 | 18 | 460 |
| | 1.6 | 370 | 410 | 460 | 24.5 | 4 | 12-Φ28 | 356 | 280 | 248 | 969 | 869 | 536 | 18 | 460 |
| 350 | 1.0 | 429 | 460 | 505 | 24.5 | 4 | 16-Φ23 | 381 | 320 | 285 | 1082 | 980 | 610 | 20 | 460 |
| | 1.6 | 429 | 470 | 520 | 26.5 | 4 | 16-Φ28 | 381 | 320 | 285 | 1082 | 980 | 610 | 20 | 460 |
| 400 | 1.0 | 480 | 515 | 565 | 24.5 | 4 | 16-Φ28 | 406 | 360 | 320 | 1123 | 1229 | 676 | 22 | 600 |
| | 1.6 | 480 | 525 | 580 | 28.0 | 4 | 16-Φ31 | 406 | 360 | 320 | 1171 | 1070 | 676 | 22 | 600 |
| 450 | 1.0 | 530 | 565 | 615 | 25.5 | 4 | 20-Φ28 | 432 | 400 | 350 | 1204 | 1310 | 740 | 24 | 600 |
| | 1.6 | 548 | 585 | 640 | 30.0 | 4 | 20-Φ31 | 432 | 400 | 350 | 1258 | 1154 | 740 | 24 | 600 |
| 500 | 1.0 | 582 | 620 | 670 | 26.5 | 4 | 20-Φ28 | 457 | 450 | 390 | 1295 | 1401 | 803 | 24 | 600 |
| | 1.6 | 609 | 650 | 715 | 31.5 | 4 | 20-Φ34 | 457 | 450 | 390 | 1295 | 1401 | 803 | 24 | 600 |
| 600 | 1.0 | 682 | 725 | 780 | 39.0 | 5 | 20-Φ31 | 508 | 500 | 470 | 1478 | 1573 | 950 | 29 | 600 |
| | 1.6 | 720 | 770 | 840 | 36.0 | 5 | 20-Φ37 | 508 | 500 | 470 | 1478 | 1573 | 950 | 29 | 600 |
| 700 | 1.0 | 794 | 840 | 895 | 32.5 | 5 | 24-Φ31 | 610 | 550 | 495 | 1696 | 1796 | 1156 | 32 | 720 |
| | 1.6 | 794 | 840 | 910 | 39.5 | 5 | 24-Φ37 | 610 | 550 | 495 | 1696 | 1796 | 1156 | 32 | 720 |

Main dimensions and masses

DN 400~1500 (with by-pass valve) 主要外形尺寸、連接尺寸及質量



Unit : mm

| DN | PN | D1 | D2 | D3 | t | f | n-d | L | L1 | L2 | H1 | H2 | H3 | B | C | E |
|------|-----|------|------|------|------|---|--------|------|------|------|-----|------|------|------|----|-----|
| 400 | 1.0 | 480 | 515 | 565 | 24.5 | 4 | 16-Φ28 | 406 | 360 | 600 | 320 | 1123 | 1229 | 676 | 22 | 600 |
| | 1.6 | 480 | 525 | 580 | 28.0 | 4 | 16-Φ31 | 406 | 360 | 600 | 320 | 1123 | 1229 | 676 | 22 | 600 |
| 450 | 1.0 | 530 | 565 | 615 | 25.5 | 4 | 20-Φ28 | 432 | 400 | 620 | 350 | 1204 | 1310 | 740 | 24 | 600 |
| | 1.6 | 548 | 585 | 640 | 30.0 | 4 | 20-Φ31 | 432 | 400 | 620 | 350 | 1204 | 1310 | 740 | 24 | 600 |
| 500 | 1.0 | 582 | 620 | 670 | 26.5 | 4 | 20-Φ28 | 457 | 450 | 660 | 390 | 1295 | 1401 | 803 | 24 | 600 |
| | 1.6 | 609 | 650 | 715 | 31.5 | 4 | 20-Φ34 | 457 | 450 | 660 | 390 | 1295 | 1401 | 803 | 24 | 600 |
| 600 | 1.0 | 682 | 725 | 780 | 30.0 | 5 | 20-Φ31 | 508 | 500 | 722 | 470 | 1478 | 1573 | 950 | 29 | 600 |
| | 1.6 | 720 | 770 | 840 | 36.0 | 5 | 20-Φ37 | 508 | 500 | 722 | 470 | 1478 | 1573 | 950 | 29 | 600 |
| 700 | 1.0 | 794 | 840 | 895 | 32.5 | 5 | 24-Φ31 | 610 | 550 | 833 | 495 | 1696 | 1796 | 1156 | 32 | 720 |
| | 1.6 | 794 | 840 | 910 | 39.5 | 5 | 24-Φ37 | 610 | 550 | 833 | 495 | 1696 | 1796 | 1156 | 32 | 720 |
| 800 | 1.0 | 901 | 950 | 1015 | 35.0 | 5 | 24-Φ34 | 660 | 600 | 863 | 540 | 1816 | 1916 | 1242 | 36 | 720 |
| | 1.6 | 901 | 950 | 1025 | 43.0 | 5 | 24-Φ40 | 660 | 600 | 863 | 540 | 1816 | 1916 | 1242 | 36 | 720 |
| 900 | 1.0 | 1001 | 1050 | 1115 | 37.5 | 5 | 28-Φ34 | 711 | 650 | 972 | 645 | 2323 | 2378 | 1423 | 39 | 720 |
| | 1.6 | 1001 | 1050 | 1125 | 46.5 | 5 | 28-Φ40 | 711 | 650 | 972 | 645 | 2323 | 2378 | 1423 | 39 | 720 |
| 1000 | 1.0 | 1112 | 1160 | 1230 | 40.0 | 5 | 28-Φ37 | 811 | 705 | 1015 | 680 | 2611 | 2680 | 1650 | 43 | 720 |
| | 1.6 | 1112 | 1170 | 1255 | 50.0 | 5 | 28-Φ43 | 811 | 705 | 1015 | 680 | 2611 | 2680 | 1650 | 43 | 720 |
| 1200 | 1.0 | 1328 | 1380 | 1455 | 45.0 | 5 | 32-Φ40 | 960 | 820 | 1065 | 790 | 2718 | 2860 | 1820 | 43 | 900 |
| | 1.6 | 1328 | 1390 | 1485 | 57.0 | 5 | 32-Φ49 | 960 | 820 | 1065 | 790 | 2718 | 2860 | 1820 | 43 | 900 |
| 1400 | 1.0 | 1535 | 1590 | 1675 | 46.0 | 5 | 36-Φ43 | 1050 | 980 | 1160 | 850 | 2910 | 3000 | 1900 | 43 | 900 |
| 1500 | 1.0 | 1635 | 1700 | 1795 | 50.0 | 5 | 40-Φ45 | 1140 | 1010 | 1200 | 940 | 3050 | 3140 | 1950 | 43 | 900 |