



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	

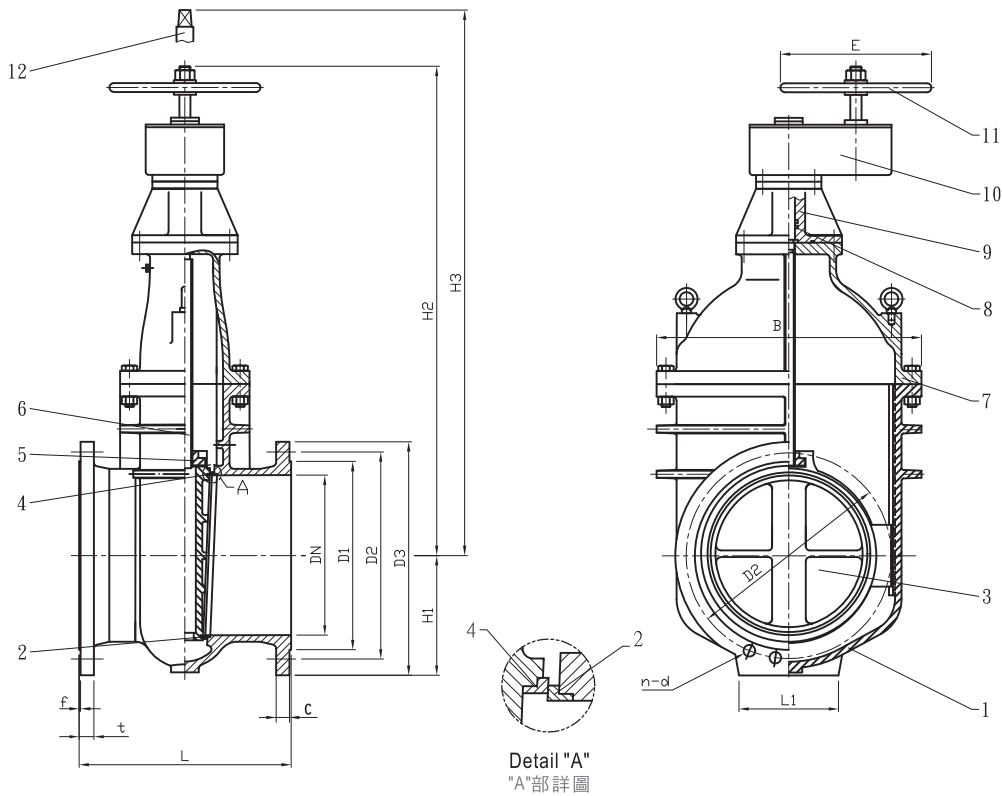
MATERIALS OF MAIN PARTS 主要零件材料

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。

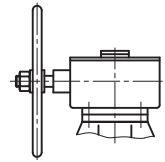
Main dimensions and masses

DN 300~700 主要外形尺寸、連接尺寸及質量



Horizontal gear box arrangement

傘齒輪裝置



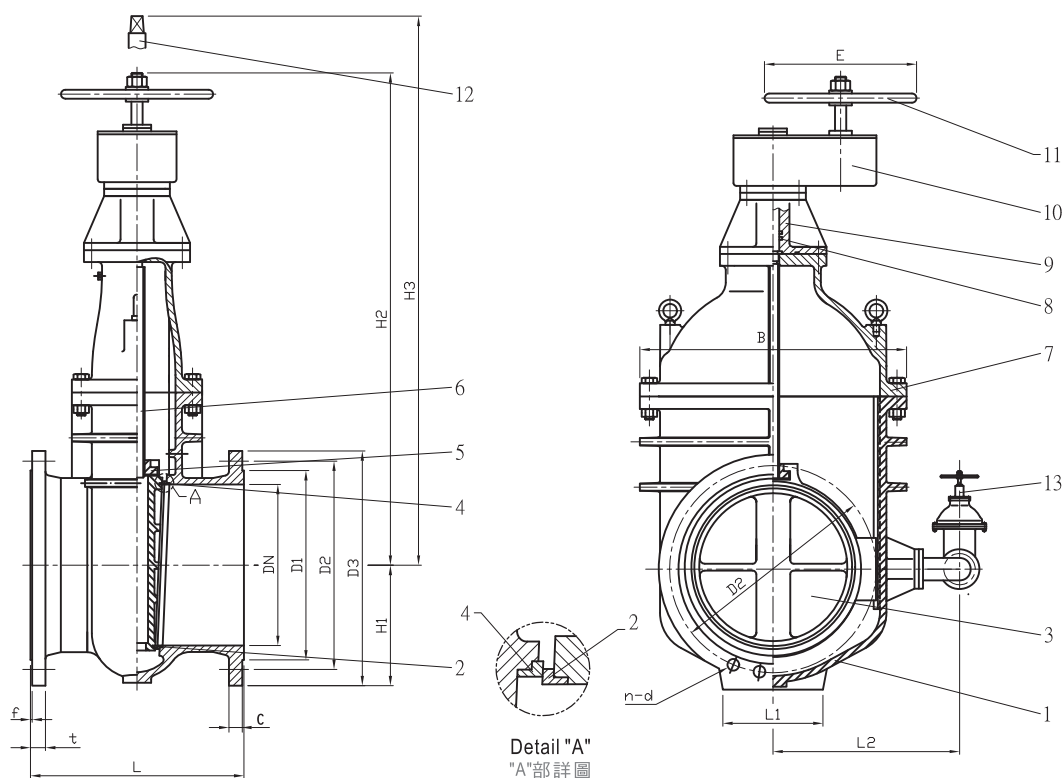
- ① Body 閥體
- ② Body seat 閥體座封
- ③ Disc 閘門
- ④ Disc seat 閘門座封
- ⑤ Spindle nut 閘桿螺帽
- ⑥ Spindle 閘桿
- ⑦ Bonnet 閘蓋
- ⑧ O-ring O型油封
- ⑨ Stuffing box 填料函
- ⑩ Gearing box 傳動裝置
- ⑪ Handwheel 手輪
- ⑫ Square cap 傳動帽

Unit : mm

DN	PN	D 1	D 2	D 3	t	f	n - d	L	L 1	H 1	H 2	H 3	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