



WHERE
FLOWS
STOP

SAFE DURABLE ECONOMICAL

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公司概要 | Company Profile



- 公 司 耐安凡而工業股份有限公司
- 設 立 西元 1997年 6月
- 認 證
- 1.ISO 9001 品質管理系統驗證
 2. 美國石油協會 API-600, API-603
 3. 歐盟壓力容器認證 CE, PED 97/23/EC Module H
 4. 美國船舶協會設計認證 ABS
 5. 中國壓力管道原件製造許可證 TSG D2001 A2 Class
 6. 低逸散性測試 Low Emission
 7. 德國 TÜV 焊工程序認證

- Name NICO VALVES CORP.
- Founded June, 1997
- Certificates
1. ISO 9001
 2. API-600, API-603
 3. CE, PED 97/23/EC Module H
 4. ABS Design Assessment
 5. China TSG D2001 A2 Class
 6. Low Emission
 7. Welding Procedure Qualification Record by TÜV

NICO VALVES CORP
耐安凡而工業股份有限公司

公司沿革 | History

- 1997.6 於台灣台中大肚區設廠生產
- 1998.10 取得 ISO 9001 認證證書
- 1998.10 正式成為中鼎公司 (CTCI GROUP) 合格供應商
- 1999.2 取得美國石油協會 API 認證證書
- 1999.9 正式成為東聯化學 (UCC) 長期供應商
- 1999.10 正式成為三福氣體 (Air Products) 長期供應商
- 1999.10 正式與高苑技術學院簽訂產學合作合約
- 1999.12 台灣電力公司國產化評鑑合格
- 2000.5 與日本著名閥門廠簽約合作，現為該日本公司主力 ODM 製造廠
- 2002.5 通過歐盟 CE 標誌 PED-H 模組認可
- 2003.9 於上海市松江區設立閥門專業製造廠房 (上海泰河一廠)，年產量 500 噸
- 2003.9 正式成為台萃 (Taiwan Styrene Monomer Corp) 長期供應商
- 2006.9 與美國閥門廠簽約合作，現為該美國公司主力 ODM 製造廠
- 2008.3 供應中龍鋼鐵 (股) 公司高爐、連續設備擴建案閥門設備
- 2009.4 供應正新橡膠 (股) 公司泰國廠、台灣斗六二廠... 等五廠閥門設備
- 2009.7 取得中國大陸 TS 壓力管道 A 級認證
- 2010.10 中鼎公司 (CTCI GROUP) 再次廠評鑑為合格供應商
- 2013.2 供應大連化學工業 (股) 公司大發廠擴建工程閥門設備
- 2013.4 於台灣台中梧棲區設立總部及梧棲新廠落成
- 2013.6 於上海市松江區設立閥門第三生產基地 (上海泰河二廠)，總年產量達 1000 噸

- 1997 Jun First factory had been located at Dadu Dist., Taichung.
- 1998 Oct Acquired ISO 9001 Attestation Certificate.
- 1998 Oct Formally became qualified supplier of CTCI Group.
- 1999 Feb Acquired American Petroleum Institute API Certificate.
- 1999 Sep Formally became long-term supplier of UJCC.
- 1999 Oct Formally became long-term supplier of Air Products
- 1999 Oct Signed a contract for collaboration between industry and school with Kao Yuan University.
- 1999 Dec Domestic manufacturer review of Taiwan Power Company qualified.
- 2000 May Signed a contract with a Japanese Valve Company, now to be its ODM factory for more than 10 years
- 2002 May Acquired the EU PED-H Module Attestation Certificate of CE Mark.
- 2003 Sep Set up a professional manufacturing factory in Shanghai, China. The annual production output could be up to 500 tons.
- 2003 Sep Became long-term supplier of Taiwan Styrene Monomer Corp.
- 2006 Sep Formally cooperated with American valve company, now to be its main ODM factory.
- 2008 Mar Concluded the contact with Dragon Steel Corp. for the valve supplier of Blast Furnace and Caster
- 2009 Apr Supplied valves to 5 factories of Cheng Shin Rubber Ind. Co., Ltd
- 2009 Jul Acquired China TS A-Class Certificate.
- 2010 Oct CTCI Group reviewed again as their qualified supplier.
- 2013 Feb Contracted the expansion project of Ta-Fa factory of Dalren Chemical Corp.
- 2013 Apr Set up new headquarter and new factory in Wuqi Dist., Taichung, Taiwan.
- 2013 Jun Set up 2nd factory in Shanghai as 3rd. professional manufacturing base. Total annual production output could be up to 1000 tons.

NVS 品牌的傳統與驕傲 | The Tradition and Pride of the "NVS" brand



化學成分分析檢測 PM Inspection

1997年起，每一台 NVS 商標的閥門背後，即代表著卓越的品質，精密的技術，和縝密的檢查與測試。我們致力於品質的優良傳統，已經為 NVS，在台灣及全世界建立了值得信賴的閥門知名品牌形象。

From 1997, NVS mark on every valve we produce shows how strong and high-quality our valves are. It also tells the valve with NVS brand must be carefully inspected and repeatedly tested. The NVS brand has continued to build upon its tradition of quality so that it is now a famous valve brand with a good reputation in Taiwan and around the world.

品質政策 | Our Quality Policy

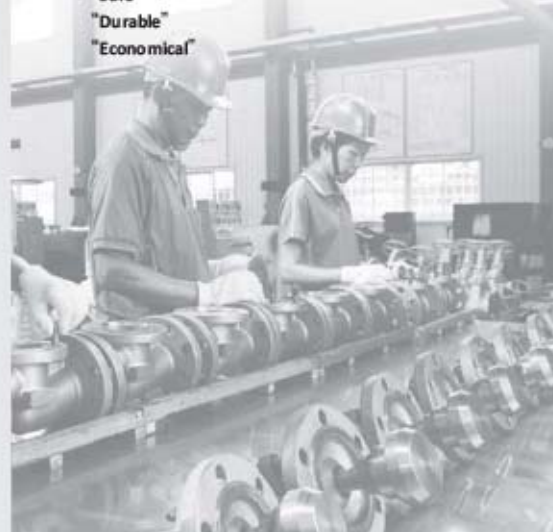


加工製程 Machining

耐安凡而公司持續不斷的努力提升閥門的品質，並確保每一台閥門長期使用的穩定性。本公司的最高品質政策為：

- 『滿足客戶需求』
- 『經濟』
- 『耐用』
- 『安全』

The strategy of NICO VALVES CORP. was continuously make every endeavor for improvement in valve products, to ensure quality and reliability. NICO's Quality Policy is to produce and develop valve products that would "Satisfy Customer's Requirement" and also be "Safe", "Durable", "Economic".



證書 Certificates



API



ISO-9001



ABS



PED 97/23/EC



TSG D0001



TUV WPCO



Low Emission

設計與鑄件控管 | Design & Casting Control



熱處理 Heat Treatment

每一台 NVC 閥門皆經過專業的設計，考量流體和使用狀況與鑄件整體結構強度，符合國際規範及各類客戶不同的需要。本公司品質技術部專業工程師，具備鑄造、管道現場及加工製作的豐富經驗，持續接受訓練、交流及專業成長。

Our valves have been delicately designed by structural analysis of casting, fluid type, and usage condition. With abundant of experience in casting, onsite and manufacturing, our Quality and Design Dept. engineers are capable of developing the valves and its peripheral equipment to meet international standard and customers' need.



染色探傷 Penetration Test



精密鑄造 Investment Casting

專業製造與測試 | Manufacturing & Testing



尺寸檢測 Dimensional Inspection

高品質的閥門來自於專業級的生產技術能力，我們的精密研磨加工、精準專業配門技術皆領先同業水準。我們承諾每一台我們出廠的閥門，皆通過我們工廠最嚴格的要求，並超越客戶的最高檢測標準。

High-quality valves are produced upon masterful manufacturing ability, such as machining hard face of seat or disc to mirror finish, precise multi disc-and-seat matching technology. Under our severe quality control, every finished valve must to be air or hydraulically tested, to meet or exceed customer's highest requirement.



精密研磨 Precise Finish



壓力測試 Pressure Test



PRODUCTS

產品介紹



GATE VALVE

G3



- Size:** 1/2" - 36"
Nominal Ratings:
 - ASME: 150# - 1500#
 - JIS: 10K - 63K
 - DIN: PN10 - PN160**Design Description:**
 - Gate Valve, API 603
 - Outside Screw and Yoke
 - Bolted Bonnet
 - Flexible Wedge, Fully Guided
 - Integral Seat and Back Seat
 - Rising Stem and Non-Rising Hand Wheel
 - Available With Gear Operator
 - Flanged End / Butt Welding End

GF



- Size:** 1 - 1/2" - 36"
Nominal Ratings:
 - ASME: 150# - 1500#
 - JIS: 10K - 63K
 - DIN: PN10 - PN160**Design Description:**
 - Gate Valve, API 600
 - Outside Screw and Yoke
 - Bolted Bonnet
 - Flexible Wedge, Fully Guided
 - Welding Seat Ring and Back Seat
 - Rising Stem and Non-Rising Hand Wheel
 - Available With Gear Operator
 - Flanged End / Butt Welding End

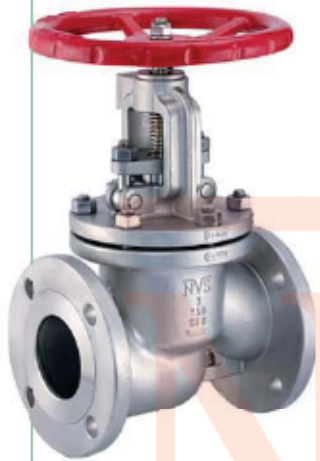
GR



- Size:** 1/2" - 2"
Nominal Ratings: ASME 800# - 2500#
Design Description:
 - API 602
 - Bolted Bonnet
 - Outside Screw and Yoke
 - Rising Stem and Non-Rising Hand Wheel
 - Welded Bonnet Type (1500# & Above)
 - Socket Weld End / Threaded End / Flanged End / Butt Welding End

GLOBE VALVE

L3



- Size: 1/2" - 12"
 Nominal Ratings:
 • ASME 150# - 1500#
 • JIS: 10K - 63K
 • DIN: PN10 - PN160
 Design Description:
 • Outside Screw and Yoke
 • Bolted Bonnet
 • Rising Stem and Hand Wheel
 • Yoke Integral with Bonnet
 • Loose Disc
 • Integral Seat and Back Seat
 • Available with Gear Operator
 • Flanged End / Butt Welding End

LF



- Size: 1 - 1/2" - 24"
 Nominal Ratings:
 • ASME: 150# - 1500#
 • JIS: 10K - 63K
 • DIN: PN10 - PN160
 Design Description:
 • Outside Screw and Yoke
 • Bolted Bonnet
 • Rising Stem and Hand Wheel
 • Yoke Integral with Bonnet
 • Welding Seat Ring and Back Seat
 • Loose Disc
 • Available with Gear Operator
 • Flanged End / Butt Welding End

LR



- Size: 1/2" - 2"
 Nominal Ratings: ASME 800# - 2500#
 Design Description:
 • API 602
 • Bolted Bonnet
 • Outside Screw and Yoke
 • Rising Stem and Hand Wheel
 • Welded Bonnet Type (1500# & Above)
 • Socket Weld End / Threaded End / Flanged End / Butt Welding End

CHECK VALVE

C3



- Size: 1/2" - 24"
 Nominal Ratings:
 • ASME: 150# - 1500#
 • JIS: 10K - 63K
 • DIN: PN10 - PN160
 Design Description:
 • Bolted Cover
 • Swing Type / Lift Type
 • For Horizontal or Vertical Lines
 • Integral Seat
 • Flanged End / Butt Welding End

CF



- Size: 1 - 1/2" - 36"
 Nominal Ratings:
 • ASME: 150# - 1500#
 • JIS: 10K - 63K
 • DIN: PN10 - PN160
 Design Description:
 • Bolted Cover
 • Swing Type
 • For Horizontal or Vertical Lines
 • Welding Seat Ring
 • Flanged End / Butt Welding End

CR



- Size: 1/2" - 2"
 Nominal Ratings: ASME 800# - 2500#
 Design Description:
 • API 602
 • Bolted Cover
 • Lift Type / Swing Type
 • Welded Bonnet Type (1500# & Above)
 • Socket Weld End / Threaded End / Flanged End / Butt Welding End

BALL VALVE

BF



2 pcs BALL VALVE

- Sizes: 1/2" - 2"
 Nominal Ratings:
- ASME 150# - 300#
 - JIS 10K - 20K
 - DIN PN6 - PN40
- Design Description:
- Full Port
 - Antistatic Stem
 - Fire Safe Design
 - Blow-Out Proof Stem
 - Flanged End

BY



2 pcs BALL VALVE

- Sizes: 1/2" - 12"
 Nominal Ratings:
- ASME 150# - 300#
 - JIS 10K - 20K
 - DIN PN6 - PN40
- Design Description:
- Full Port
 - Antistatic Stem
 - Locking Device
 - Fire Safe Design
 - Blow-Out Proof Stem
 - Flanged End
 - With ISO 5211 Direct Mounting Pad

B1



1 pc BALL VALVE

- Sizes: 1/4" - 2"
 Nominal Ratings: 1000 PSI
- Design Description:
- Locking Device
 - Threaded End
 - Blow-Out Proof Stem

B2



2 pcs BALL VALVE

- Sizes: 1/4" - 2"
 Nominal Ratings: 1000 PSI - 1500 PSI
- Design Description:
- Full Port
 - Threaded End
 - Blow-Out Proof Stem

B3



3 pcs BALL VALVE

- Sizes: 1/4" - 4"
 Nominal Ratings: 1000 PSI
- Design Description:
- Full Port
 - Antistatic Stem
 - Blow-Out Proof Stem
 - Socket Weld / Threaded End / Flanged End / Butt Welding End

BW



3-WAY BALL VALVE

- Sizes: 1/2" - 4"
 Nominal Ratings:
- ASME 150# - 300#
 - JIS 10K - 20K
 - DIN PN6 - PN40
- Design Description:
- Full Port
 - Flanged End
 - With Locking Device
 - Ball Options: L Port / T Port
 - With ISO5211 Direct Mounting Pad

BX



3-WAY BALL VALVE

- Sizes: 1/4" - 2"
 Nominal Ratings: 1000 PSI
- Design Description:
- Threaded End
 - With Locking Device
 - Ball Options: L Port / T Port
 - With ISO5211 Direct Mounting Pad

BALL VALVE

SCREWED END VALVE

GS



GATE VALVE

- Sizes: 1/2" - 2"
Nominal Ratings: 200PSI
Design Description:
- Threaded End
 - Non-Rising Stem
 - Solid Wedge Disc
 - Screwed-In Bonnet
 - Hand Wheel Operation

LS



GLOBE VALVE

- Sizes: 1/4" - 2"
Nominal Ratings: 200 PSI
Design Description:
- Loose Disc
 - Rising Stem
 - Screwed-In Bonnet
 - Hand Wheel Operation
 - Threaded End

YG



Y-GLOBE VALVE

- Sizes: 1/4" - 2"
Nominal Ratings: 800 PSI
Design Description:
- Threaded End
 - Solid Wedge Disc
 - Screwed-In Bonnet
 - Y-Type Rising Stem
 - Hand Wheel Operation

CS



SWING CHECK VALVE

- Sizes: 3/8" - 3"
Nominal Ratings: 200 PSI
Design Description:
- Swing Type
 - Threaded End
 - Screwed-In Cap
 - Stainless Steel Disc

YC



Y-SPRING CHECK VALVE

- Sizes: 1/4" - 3"
Nominal Ratings: 800 PSI
Design Description:
- Y-Type
 - Threaded End
 - S.S. 316 Piston Disc

YS



Y-STRAINER

- Sizes: 1/4" - 3"
Nominal Ratings: 800 PSI
Design Description:
- Y-Type
 - Threaded End
 - S.S. 316 Screen
 - Screwed-In Cap

MS



NEEDLE VALVE

- Sizes: 1/8" - 2"
Nominal Ratings: 6000 PSI
Design Description:
- Rising Stem
 - Threaded End
 - Screwed-In Bonnet
 - T Handle Operation

KNIFE GATE VALVE

KG

- Sizes: 2" - 24"
Nominal Ratings:
- ASME: 50#
 - JIS: 10K
 - DIN: PN10 - PN16
- Design Description:
- Knife Gate Valve, MSS SP 81
 - Outside Screw and Yoke
 - Integral Seat or Radient Seat
 - Rising Stem and Non-Rising Hand Wheel
 - Available with Gear Operator
 - Flanged End



Y-STRAINER

WAFER CHECK VALVE

YR



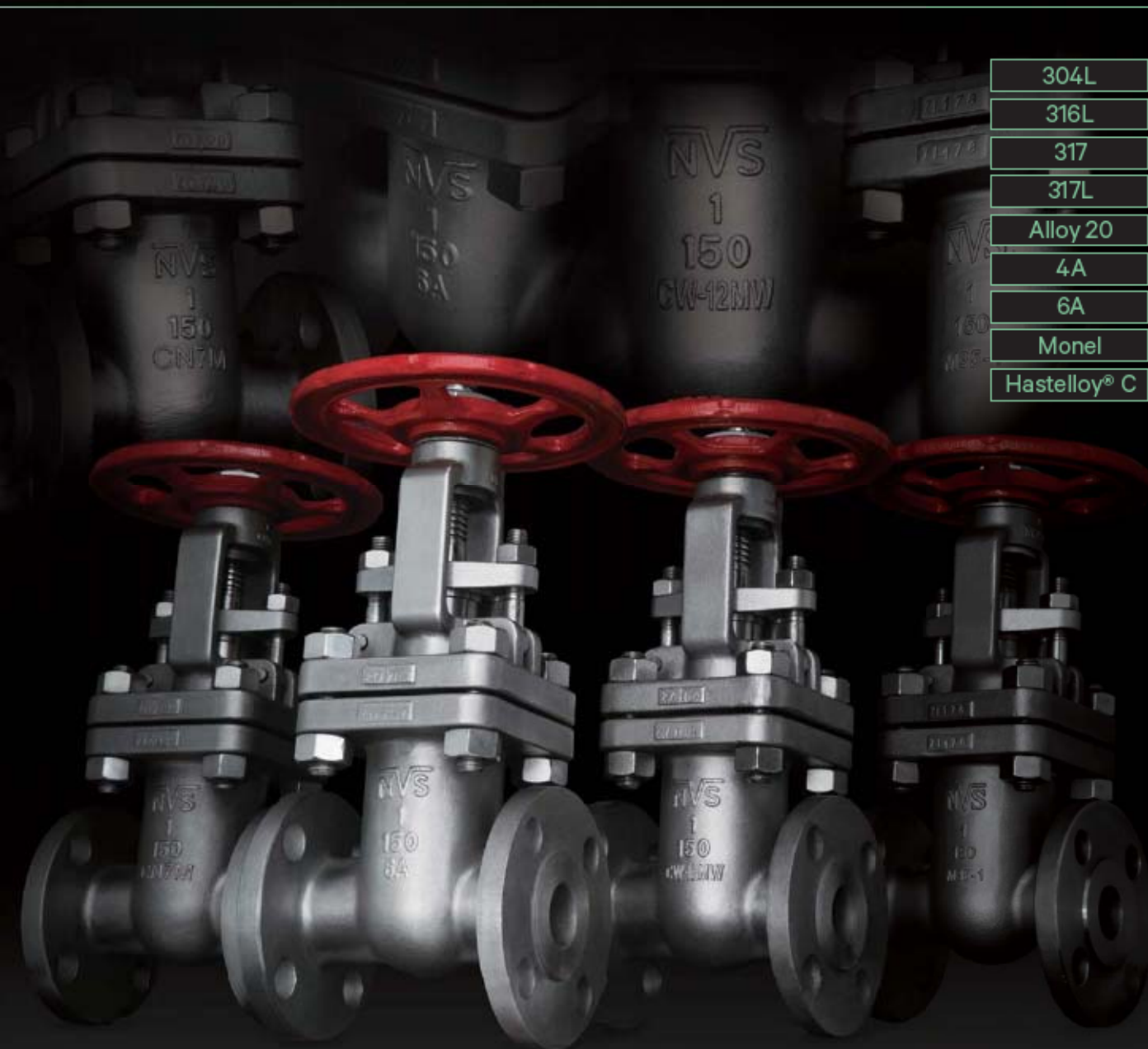
- Sizes: 1/2" - 24"
Nominal Ratings:
- ASME: 150# - 300#
 - JIS: 10K - 20K
 - DIN: PN10 - PN40
- Design Description:
- Y-Pattern
 - Bolted Cover With Drain Plug
 - Perforated Stainless Steel Screen
 - Flanged End / Butt Welding End

WC



- Sizes: 1/2" - 8"
Nominal Ratings: ASME150# - 300#
Design Description:
- Wafer Type
 - S.S. 316 Disc & Spring

SPECIAL ALLOY VALVE



- 304L
- 316L
- 317
- 317L
- Alloy 20
- 4A
- 6A
- Monel
- Hastelloy® C

Material Characteristics & Typical Applications

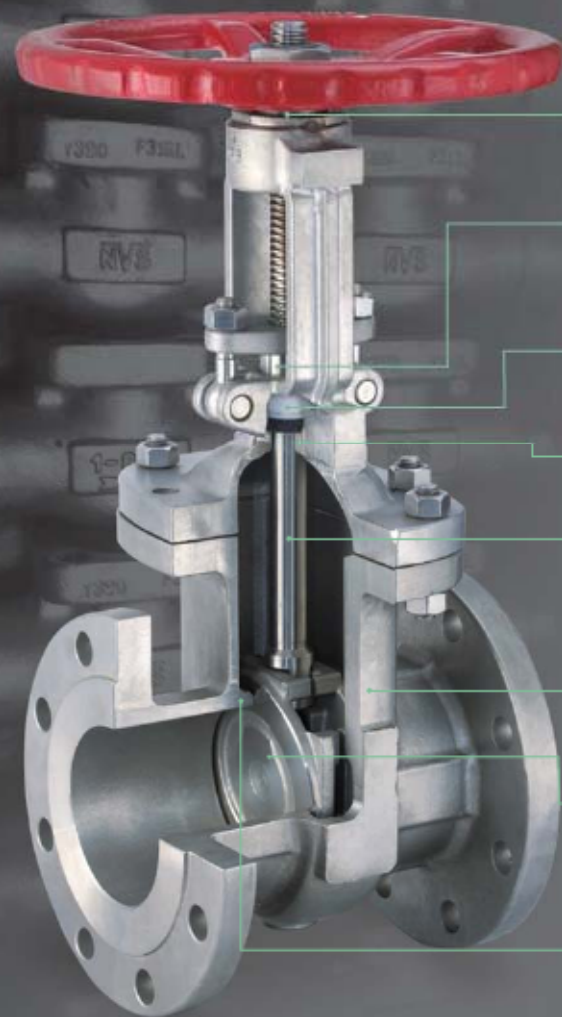
Designation	Material Characteristics	Typical Applications
Austenitic Stainless Steel 沃斯田鐵系不銹鋼		
A351-CF8 (304)	Highly corrosion resistance to nitric acid and organic acid at ambient temperature. 在常溫下，可抗硝酸及多種有機酸腐蝕。	Pulp and paper mills, chemical processes and seawater services. 紙漿、化工製程、海水服務。
A351-C69M (317)	Corrosion resistance to pitting and crevice corrosion, highly resistant to medium concentration of boiling acetic acid and dilute hydrochloric acid. 耐孔蝕及隙腐蝕，可耐中濃度沸騰醋酸及稀薄鹽酸腐蝕。	Equipment for processing organic acid, oil pipeline and seawater services. 有機酸製造之製程設備、油管、海水服務。
A351-C69M (316L)	Superior resistance to stress crack corrosion in 20%-40% sulfuric acid and corrosion resistance to phosphoric acid of any concentration, even in boiling condition. 在濃度 20%-40% 硫酸環境中具有最佳之抗應力腐蝕特性，耐所有濃度磷酸之腐蝕，甚至可達到沸騰溫度。	Process equipment handling sulfuric acid and phosphoric acid. 處理硫酸或磷酸之製程設備。
A351-CN7M (Alloy 20)		
Duplex Stainless Steel 雙相不銹鋼		
A890-4A (CD3MN - S31803)	Outstanding corrosion resistance, combining beneficial properties of austenitic and ferritic stainless steel, high ductility, greater toughness, high strength, good resistance to intercrystalline corrosion & chloride stress corrosion, good weldability and high thermal conductivity. S32760 has high content of Cr, Mo and N than S31803, PREN value is 40. 具有優良耐孔蝕性能，兼有沃斯田鐵系和肥粒鐵系不銹鋼的特點，塑性、韌性、強度更高，耐晶間腐蝕性能、耐氯化物應力腐蝕和焊接性能均顯著提高，以及導熱係數高；與普通 S31803 雙相不銹鋼相比，S32760 中 Cr、Mo、N 含量均有一定程度的提高，耐點蝕指數 PREN 達到 40+。	Process equipment in seawater system, salt manufacturing processes, urea production, and other high corrosion environment. 適用於海水系統、制鹽及尿素製程及其其他高腐蝕環境下之設備。
A890-6A (CD9MNCUN - S32760)		
Ni-Cu Alloy 鎳銅合金鋼		
A494-M2S-1 (Monel®)	Corrosion resistance, especially to de-aerated hydrochloric and hydrofluoric acid, high temperature seawater and steam. Age-hardening M-2S has excellent galling property due to its high silicon content. 耐鹽酸、氫氟酸（尤其不含空氣時）俱優異抗蝕性，對高溫海水或蒸汽極為耐蝕，含 Si 較高之 M-2S，可時效硬化，俱優異耐蝕性。	Marine fixtures and other chemical equipments under hydrochloric acid, seawater and alkaline solution. 船用裝置或其他處理氫氯酸、海水、強鹼之化工設備。
A494-M2S-2 (Monel®)		
A494-M2S (Monel®)		
Ni-Cr-Mo Alloy 鎳鉻鉬合金鋼		
A494-CW12MW (Hastelloy® C)	Corrosion resistance to oxidizing acid such as wet chlorine gas and chlorine dioxide, acetic acid, seawater and brine solution, exceptional resistance to oxidizing atmospheres up to 1040 deg. C. 耐氧化性酸之腐蝕，如濕氯氣及二氧化氯、醋酸、海水及鹽類，耐氧化性環境可達 1040°C。	Pulp and paper, food process equipment, seawater services and chemical equipment handling oxidizing acid. 紙漿、食品設備、海水服務或處理氧化性酸之化工設備。

*Hastelloy® is registered trademark of Haynes International Inc. *Monel® is registered trademark of Inco Alloys International Inc.



TECHNICAL INFORMATION

技術說明



GATE VALVE

Stem nut

Furnished in ductile NI-resist to reduce operating torque.

Gland

Two piece self-aligning design to prevent stem damage from over-tightening on slanted gland flange.

Packing Box

Providing high seal and low torque packing, available with lantern ring and lubricant injector.

Back Seat

Precision machined, offering back-up stem seal.

Stem

Using forged T-head stem which is sturdy on stem-to-flexible disc joint. This kind of structure enables flexible disc self-align and minimize stem bend and then interfere disc.

Body

Full ported and heavy-duty design, available with bosses for by-pass valve or drain valve.

Flexible Disc

Heavy-duty and full guided to minimize wear of disc, accurately mates the surface of the disc with the surface of the seat for offering superior tightness.

Seat

Separate or integral seat, full ported design, ground and lapped to a mirror finish, for easy maintenance, also providing longer service life.

Material Conversion Chart

Material Code	Nominal Designation	Casting			Forged			Bar		
		ASTM	UNS	DIN	ASTM	UNS	DIN	ASTM	UNS	DIN
Carbon Steel										
WCB	C-SI	A216 WCB	J03002	1.0619	A105	—	1.0460	A105	—	1.0460
WC6	114Cr-V2Mo	A217 WC6	J12072	1.7957	A182 F11 CL 2	K11572	1.7395	A182 F11 CL 2	K11572	1.7395
WC9	214Cr-1Mo	A217 WC9	J21690	1.7370	A182 F22 CL 3	K21590	1.7380	A182 F22 CL 3	K21590	1.7380
Austenitic Stainless Steel										
SS304	18Cr-8Ni	A312 CF8	J92600	1.4308	A182 F304	S30400	1.4301	A479/A276 304	S30400	1.4301
SS304L	18Cr-8Ni (C<0.03%)	A312 CF3	J92700	1.4309	A182 F304L	S30403	1.4306	A479/A276 304L	S30403	1.4306
SS316	18Cr-9Ni-2Mo	A312 CF8M	J92900	1.4408	A182 F316	S31600	1.4401	A479/A276 316	S31600	1.4401
SS316L	18Cr-9Ni-2Mo (C<0.03%)	A312 CF8M	J92800	1.4409	A182 F316L	S31603	1.4404	A479/A276 316L	S31603	1.4404
SS317	18Cr-11Ni-3.5Mo	A312 CG8M	J92800	—	A182 F317	S31700	1.4449	A479/A276 317	S31700	1.4449
SS317L	18Cr-11Ni-3.5Mo (C<0.03%)	A312 CG3M	J92999	—	A182 F317L	S31703	1.4498	—	—	—
SS347	18Cr-10Ni-Cb	A312 CF8C	J92710	1.4552	A182 F347	S34700	1.4550	A479/A276 347	S34700	1.4550
904L	21Cr-24Ni-6Mo-N-Cu	A312 CN3MN	J84651	—	A182 F904L	N08904	1.4539	—	—	—
Alloy 20	29Ni-20.5Cr-3.5Cu-2.5Mo	A312 CN7M	N08007	1.4536	A182 F20	N08020	2.4680	B47 3	N08020	2.4680
Super Austenitic Stainless Steel										
254Mo	20Cr-18Ni-6.5Mo-N-Cu	A312 CK3MCuN	J92354	1.4547	A182 F44	S31254	—	A479/A276	S31254	—
Nickel Based Alloy										
Monel 400	67Ni-30Cu-3.5Fe	A494 M35-1	N04135	2.4365	B564	N04400	—	B164	N04400	2.4360
Hastelloy B	64Ni-28Mo-5Fe	A494 N24V	N30012	2.4882	B564	N10675	—	B395	N10001	2.4819
Hastelloy B2	63Ni-32Mo-3Fe	A494 N7M	N60007	2.4617	B564	N10665	—	B395	N10665	2.4856
Hastelloy C	55Ni-16Cr-17Mo-3Fe-4W	A494 CW12MW	N60002	2.4686	—	—	—	B574	N10002	2.4819
Hastelloy C276	58Ni-18Cr-18Mo-3Fe	A494 CW6M	N10107	2.4819	B564	N10276	—	B574	N10276	1.7752
Hastelloy C22	56Ni-21Cr-13Mo-4Fe-3W	A494 CX2MW	N26022	9.4602	B564	N106022	—	B574	N106022	2.4602
Inconel 600	69Ni-15Cr-11Fe	A494 CY40	N06040	2.4816	B564	N06600	—	B166	N06600	2.4817
Inconel 625	59Ni-23Cr-9Mo-3.5Cb	A494 CW6MC	N26625	2.4856	B564	N06625	—	B446	N06625	2.4856
Duplex Stainless Steel										
1B	25Cr-5Ni-2Mo-3Cu-N	A995 CD4MCuN	J93372	1.4507	A182 F61	S32550	—	A479/A276	S32550	—
2A	24Cr-10Ni-3Mo-N	A995 CE3MN	J93345	—	A182 F60	S32205	—	A479/A276	S32205	—
4A / 2205	22Cr-5Ni-3Mo-N	A995 CD3MN	J92205	1.4462	A182 F51	S31803	—	A479/A276	S31803	1.4462
Super Duplex Stainless Steel										
5A / 2507	25Cr-7Ni-4Mo-N	A995 CE3MN	J93404	—	A182 F52	S32750	—	A479	S32750	1.4410
6A	25Cr-7Ni-3Mo-N-Cu-W	A995 CD3MWCuN	J93380	1.4468	A182 F55	S32760	—	A479/A276	S32760	1.4460

Pressure-Temperature Ratings ASME B16.34 -2013

CLASS 150

Temperature		Working Pressure (Psig)							
°F	°C	WC(B)	WC(3)	LC(B2)	CF(3)	CF(M)	CN(M)	SA	SA
-20 to 100	-29 to 38	285	290	265	275	275	230	290	290
200	93	260	260	255	230	235	200	260	260
300	149	230	230	230	205	215	180	230	230
400	204	200	200	200	190	195	160	200	200
500	260	170	170	170	170	170	150	170	170
600	316	140	140	140	140	140	140	140	140
650	343	125	125	125	125	125	-	125	125
700	371	110	110	110	110	110	-	110	110
750	399	95	95	95	95	95	-	95	95
800	427	80	80	80	80	80	-	-	-
850	454	65	65	65	65	65	-	-	-
900	482	50	50	50	50	50	-	-	-
950	510	35	35	35	35	35	-	-	-
1000	538	20	20	20	20	20	-	-	-
1050	566	-	20*	-	20*	20	-	-	-
1100	593	-	20*	-	20*	20*	-	-	-
1150	621	-	20*	-	20*	20*	-	-	-
1200	649	-	15*	-	20*	20*	-	-	-

CLASS 300

Temperature		Working Pressure (Psig)							
°F	°C	WC(B)	WC(3)	LC(B2)	CF(3)	CF(M)	CN(M)	SA	SA
-20 to 100	-29 to 38	740	750	695	720	720	600	750	750
200	93	680	750	660	600	620	520	660	660
300	149	655	730	640	540	560	465	615	615
400	204	630	705	615	495	515	420	565	565
500	260	605	665	585	465	480	390	530	530
600	316	570	605	550	440	450	360	505	505
650	343	550	590	535	430	440	-	485	485
700	371	530	570	510	420	435	-	465	465
750	399	505	530	475	415	425	-	450	450
800	427	470	510	450	405	420	-	435	435
850	454	440	485	420	395	420	-	420	420
900	482	410	450	400	380	415	-	405	405
950	510	385	435	385	380	405	-	395	395
1000	538	365	415	365	365	385	-	385	385
1050	566	-	385	-	325	360	-	360	360
1100	593	-	360	-	255	305	-	305	305
1150	621	-	340	-	205	295	-	295	295
1200	649	-	315	-	165	285	-	285	285

CLASS 600

Temperature		Working Pressure (Psig)							
°F	°C	WC(B)	WC(3)	LC(B2)	CF(3)	CF(M)	CN(M)	SA	SA
-20 to 100	-29 to 38	1480	1500	1395	1440	1440	1200	1500	1500
200	93	1350	1500	1320	1300	1240	1035	1400	1400
300	149	1210	1455	1275	1075	1020	930	1235	1235
400	204	1085	1410	1230	995	1025	845	1230	1230
500	260	1005	1330	1175	930	955	780	1160	1160
600	316	935	1210	1105	885	900	720	1115	1115
650	343	870	1175	1065	855	885	-	1065	1065
700	371	810	1135	1025	815	840	-	1015	1015
750	399	750	1095	985	785	815	-	965	965
800	427	695	1065	955	755	785	-	935	935
850	454	640	1035	925	725	755	-	905	905
900	482	590	1005	895	700	730	-	875	875
950	510	540	975	865	675	705	-	845	845
1000	538	495	945	835	645	675	-	815	815
1050	566	-	915	-	615	645	-	785	785
1100	593	-	885	-	585	615	-	755	755
1150	621	-	855	-	555	585	-	725	725
1200	649	-	825	-	525	555	-	695	695

CLASS 900

Temperature		Working Pressure (Psig)							
°F	°C	WC(B)	WC(3)	LC(B2)	CF(3)	CF(M)	CN(M)	SA	SA
-20 to 100	-29 to 38	2220	2250	2090	2180	2180	1800	2250	2250
200	93	2035	2250	1980	1800	1850	1555	2230	2230
300	149	1865	2185	1915	1615	1680	1395	2000	2000
400	204	1700	2115	1845	1490	1540	1285	1845	1845
500	260	1610	1995	1760	1395	1435	1165	1740	1740
600	316	1520	1875	1655	1325	1355	1080	1670	1670
650	343	1455	1765	1600	1295	1325	-	1640	1640
700	371	1390	1660	1535	1265	1305	-	1615	1615
750	399	1330	1560	1470	1240	1280	-	1595	1595
800	427	1275	1465	1405	1215	1255	-	1570	1570
850	454	1220	1375	1340	1190	1230	-	1545	1545
900	482	1170	1290	1275	1165	1205	-	1520	1520
950	510	1120	1210	1210	1140	1180	-	1495	1495
1000	538	1070	1135	1145	1115	1155	-	1470	1470
1050	566	-	1060	-	1090	1130	-	1445	1445
1100	593	-	1010	-	1040	1080	-	1420	1420
1150	621	-	960	-	990	1030	-	1395	1395
1200	649	-	910	-	940	980	-	1370	1370

CLASS 1500

Temperature		Working Pressure (Psig)							
°F	°C	WC(B)	WC(3)	LC(B2)	CF(3)	CF(M)	CN(M)	SA	SA
-20 to 100	-29 to 38	3705	3750	3490	3500	3500	3000	3750	3750
200	93	3395	3750	3300	3000	3065	2590	3720	3720
300	149	3270	3640	3190	2890	2795	2330	3335	3335
400	204	3170	3530	3075	2485	2570	2110	3070	3070
500	260								



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