



HOPEET ENTERPRISE
SAFETY VALVE

申錫-安全閥與控制閥的專家

SAFETY RELIEF VALVE & PNEUMATIC COMPONENTS



ISO 9001
NO. Cert. 00.12.3511



證書編號: 34622088



簡介

申錫為一專業閥類產品製造商，公司創立於西元1968年，早年主要產品以空氣壓縮機上之小型球閥、逆止閥、安全閥、洩水閥等為主。至今仍持續研發、創新，持續引進各式高精度設備、加工技術以滿足各種客戶需求。

公司生產之不鏽鋼304/316、鑄鐵、鑄鋼、銅等材質之安全閥、Y型汽缸閥、針閥、逆止閥等，不鏽鋼產品，本體為精密脫蠟鑄件，其可運用在蒸氣鍋爐、染色機械、成衣蒸燙機、皮革機械、化工機械、石化應用、食品機械等諸多用途上。

在2016年，公司成功研發超低溫專用閥門- Marshall系列產品，如安全閥、逆止閥、調壓閥、三通球閥、壓力錶閥、Y型過濾器。Marshall系列產品，亦為臺灣首次得到中國大陸地區之TS特種設備低溫認證之產品。申錫Marshall系列，為您超低溫流體需求的最佳解決方案。

2018年，申錫將廠內主力之CNC產線，導入自動化生產製程：十餘台配合自動送料機以及機械自動手臂之精密加工機台，其不僅強化產品品質，亦提高了生產效能。由於這些科技的進步，我們能達成兼顧高品質與成本的雙贏任務。

申錫公司誠摯地希望能滿足一切您的閥類產品需求。

About us

Hopeet Enterprise, your most professional Valve manufacturer. Founded in 1968 and family owned. We started with making the small ball valve, check valve, safety valve for air compressor and still developing the need for our customers.

Our products have various choices of material and made from lost wax/foundry casting; such as SUS304/316, WCB, FC and Bronze. The products can be used on steam boiler, dye machine, steam ironing machine, leather machine, chemical industry and food industry.

In 2016, we've successfully developed the valves for cryogenic application The Marshall series valves. The Marshall series (check valve, safety valve, pressure regulator, shut-off valve, pattern strainer, excess flow valve) have become the first TS cryogenic certificated product in Taiwan. Hopeet's Marshall series is your best solution for your cryogenic application.

The future is near, Cost and Quality can be balanced. Hopeet has completed the automation set up on our all major CNC production lines in late of 2018. We have installed over dozens of DMG MORI machines with bar feeders and robot arms to improve the quality and the productivity on all Hopeet's product.

We Hopeet Enterprise sincerely looking forward to bring you the solution for your valve need.

第二代董事長為 王懿德，並開始第一次轉型朝向安全閥設計與生產。
The second-generation Chairman, Wang Yi-Te, led the company's first transformation, focusing on the design and production of safety valves.

1968.01

1987.05

本公司由創辦人王甫泉成立。
The company was founded by Wang Fu-Chuan.

董事長第三代 王卓立。開始全面導入高階日、德自動化五軸機床，為第二次轉型。
The third-generation Chairman, Wang Cho-Li, initiated the second transformation by fully introducing advanced Japanese and German five-axis CNC machines with automation.

2016.02

2018.04

因應LNG氣體需求大增，開始生Marshall 系列產特殊低溫氣體用閥。
In response to the surge in LNG demand, the company launched the Marshall Series valves designed for special cryogenic gas applications.

因應未來人力需求減少導入機械手臂、24小時托盤自動化生產系統，完成第三次轉型。
To address future labor shortages, robotic arms and a 24-hour automated pallet production system were implemented, completing the third transformation.

2019.06

2024.07

取得歐盟最嚴苛CE PED認證，並持續推動自動化生產。
The company obtained the EU's most stringent CE PED certification and continued to advance automated production.

2025.09

完成安全閥檢測線上查核系統與測試機台，並提供業界最完整的安全閥性能報告。
The company completed its online safety valve inspection and testing system, providing the industry's most comprehensive safety valve performance reports.

國際標準CE, ASME*, TS*認證

業界最上！安全閥製造標竿！

自有材質分光儀 原料品質把關

- 日系Hitachi材料分析分光儀，每批材料雙重驗證化學性質
確保符合PED規範、EN 10204 Type 3.1規格
- 國際壓力容器規範- 歐盟CE PED 2014/68/EU 生產、產品證書
品質系統ISO 9001, ISO 14001
殼體設計規範符合ASME, 及ISO4126
排放、回壓、洩漏性能設計規範ISO4126, API527

組裝 測試 / Assembly & Examine 自主研發、引領業界、全台唯一!! 「一站式測壓、測漏平台」

- 自動產出安全閥測試報告，雲端儲存可線上回溯，
快速查找報告，保存測試影片五年，明確責任歸屬。
- 具備驗證功能，可驗證是否為贗品。
申錫深耕全球安全閥市場40餘年
客戶信賴 品質有保障，售出安全閥一年保固
產品異常交換件保固服務，確保產線運作不受影響

- 3年料件整新保固，返廠維修能力，安心免煩惱，我們一直都在。

「自製率高達95%」背後是?!

100% 自動化產線 鏡面級車削
德、日、台加工機台菁英薈萃

“IN HOUSE 自廠生產”



關於申錫
About Hopeet

- 自動化：本體由Makino PZ Max工作站、
UR機械手臂自動上下料車床，24小時全天候自動生產。

一切設備的建制都是為了最終目標-穩定而高效高品質

高達95%的自製率所以我們自主能控制產品品質；
不假他人之手，達到穩定可控的交期。

- 精密加工：8台DMG MORI車銑複合機台製作-
安全閥的核心「閥盤、閥座」達到誇張完美的鏡面級車削。
高精度、RA平整度MAX! 的密封面，降低了35%的無效排放。

- 日本 Cleanvy- 真空淨排放超音波清洗機
可食用等級洗劑，確保閥件不會汙染管道。

*ASME, TS 申請中。

Certificates / CE, ASME*, TS* The Benchmark of Safety Valve

In-house Spectrometer Ensuring Raw Material Quality

- Material verified with Hitachi spectrometer
Dual-check purity, meets EN 10204 Type 3.1
- Certified to EU CE PED 2014/68/EU
ISO 9001 / ISO 14001 Quality System
Design standards:
Housing – ASME and ISO4126
Performance – ISO 4126 / API 527

Assembly & Examine The Only in the Industry Self-Developed, “Integrated Pressure & Leak Testing System”

- The system provides the Auto-Generated Test Reports,
Cloud Storage with Online Traceability
Quick report search, test videos stored for 5 years
for clear accountability.
- Anti-Counterfeit Verification Available
Ensures product authenticity.
- Over 40 Years in the Global Safety Valve Market
Trusted by customers. Proven quality.
1-Year Warranty for Safety Valves
Factory Repairs & On-site Valve Replacement service

In-House Repairs with 3-Year Refurb Warranty Coverage
Worry-free service — we're always here for you.

95% Self-Manufactured – How? 100% Automated Line , Mirror-Finish Turning Top Machines from Germany, Japan & Taiwan

- Automation & Quality Control
Makino PZ Max Workstations + UR Robot Arms 24/7 unmanned production of valve bodies.
Built for one goal: stable, efficient, also high-quality With 95% in-house manufacturing,
We ensure full quality control & reliable lead times.
- Precision Machining
8x DMG MORI Mill-Turn Centers produce our core components —
Valve DISKS & SEATS with Mirror-Finish Turning and extreme flatness (RA).
Achieves 35% reduction in leakage through ultra-precise sealing surfaces.
- Clean & Safe
Japan-made Cleanvy ultrasonic cleaner
Food-grade detergent to ensure no pipeline contamination from Valve.

*ASME, TS pending

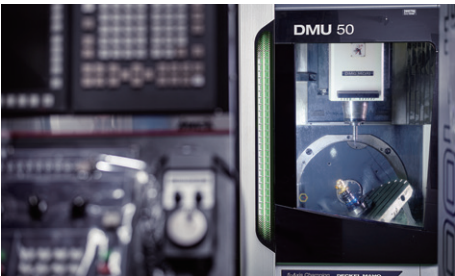
Production Process 生產工藝

申錫安全閥，為了達成不仰賴他人的自製能力，持續投資精進自身的生產設備，擁有完備的高精度德日台數控加工車床、銑床，並擁有全自動化生產能力。

To achieve full in-house manufacturing capabilities without relying on external suppliers, Hopeet continuously invests in the advancement of its production equipment. The company is equipped with a complete range of high-precision CNC lathes and milling machines from Germany, Japan, and Taiwan, and possesses fully automated production capabilities.



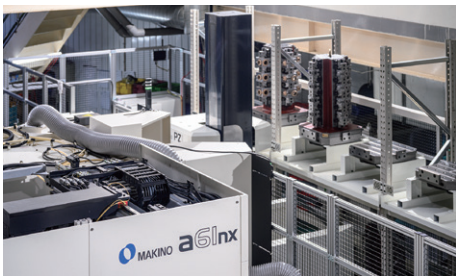
DMG MORI EcoTurn 310*2 車銑複合
DMG MORI EcoTurn 310 mill-turn machine



DMG MORI DMU50 5軸銑床
DMG MORI DMU50 5-axis milling machine



AWEA AF-1000 *6 銑床
AWEA AF-1000 milling machine



Makino PZ1 *1 自動化工作站
Makino PZ1 pallet handling system



FANUC ROBODRILL *2 銑床
FANUC ROBODRILL milling machine



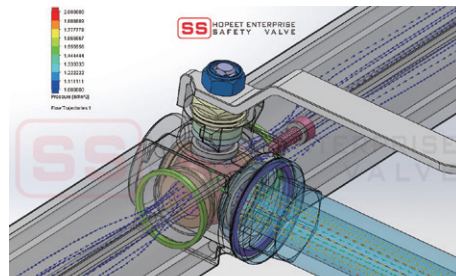
Makino a61nx *2 臥式銑床
Makino a61nx Horizontal milling machine



FEMCO 車床配合UR機械手臂自動上下料
FEMCO turning machine with UR robotic arms
HL-25*4
HL-25N *7



日本Cleanvy-真空淨排放超音波清洗機
Japan-made Cleanvy ultrasonic cleaner



SolidWorks 流體、應力分析軟體
SolidWorks - Flow simulation

Inspection Equipments 檢測設備

安全閥為設備的最後防線，我們建置了各式檢測設備為了得到全方面的數據資料，來保證安全閥的品質。

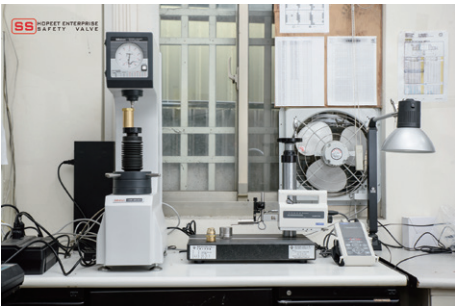
As safety valves serve as the final line of defense in equipment, we have established a wide range of inspection equipment to obtain comprehensive data, ensuring the quality and reliability of our safety valves.



材質分析分光儀 HITACHI FOUNDRY-MASTER
Material Analyzer Spectrometer



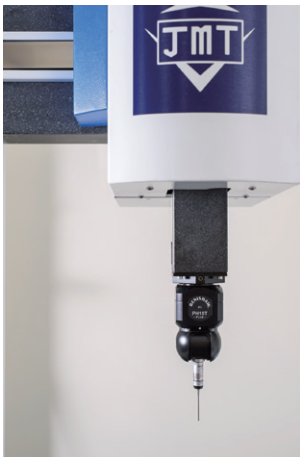
手持3D雷射掃描儀
ScanTech SIMSCAN30
Handheld 3D Laser Scanner



表粗儀 Surface Roughness Tester
AccretTech SURFCOM FLEX-50AX
洛式硬度計 Rockwell Hardness Tester
Mitutoyo HR-210MR



2.5D影像量測儀 MimnTaiy SV-2.5D
2.5D Optical Measuring Instrument



三次元座標量測儀
JMTTech ABLE-H686-CNC
CNC 3D Coordinate Measuring Machine (CMM)



申錫自研-安全閥排放性能檢測台
Hopeet In-house
Developed Safety Valve Discharge



申錫自研-一站式測壓檢漏平台
Hopeet In-house
Developed Pressure Testing
& Leak Detection Platform

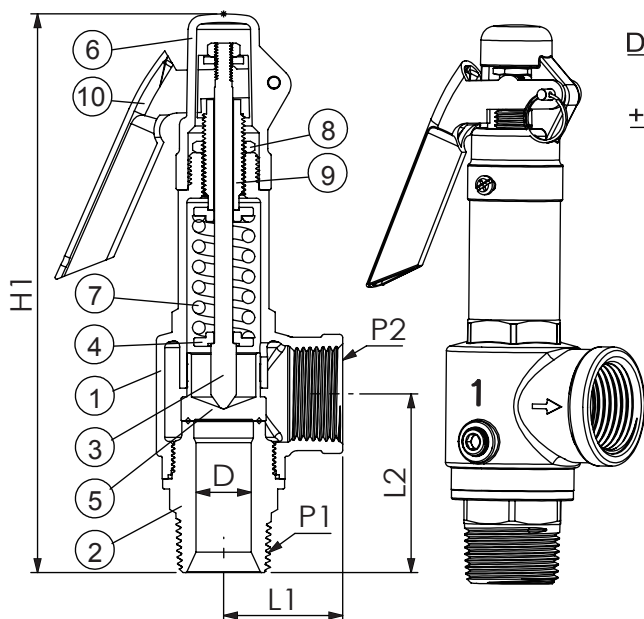


產品認證
Certificates



(BRONZE / STAINLESS STEEL) SAFETY VALVES 安全閥

S10L-BBB



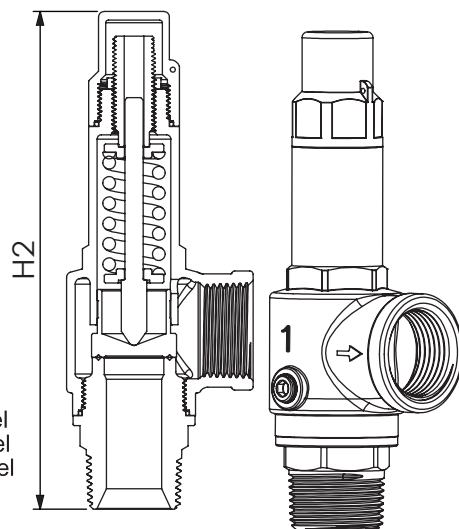
Valve seat
Disc+Soft material
Valve body
+(Handle)

S10 L - B B B
- B T B
- B S S
- S S S

B = (Body)Bronze
(Seat) BRASS
(Disc) BRASS
S = (Body)Stainless steel
(Seat) Stainless steel
(Disc) Stainless steel

Soft sealing
T = Teflon (PTFE)
V = Fluororubber (Viton)
M = MC Nylon

S10-SSS



材質表 General material

NO.	TYPE (example) NAME	S10L-BBB手拉式 Safety Valve with lever metal to metal	S10-BBB密封式 Safety Valve with Sealing metal to metal	S10L-BTB手拉式 Safety Valve with lever Disc insert PTFE	S10-BVB密封式 Safety Valve with Sealing Disc insert VITON	S10L-BSS手拉式 Safety Valve with lever metal to metal	S10L-SSS手拉式 Safety Valve with lever metal to metal
1	閥體 VALVE BODY	BRONZE	BRONZE	BRONZE	BRONZE	BRONZE	CF8/CF8M
2	閥座 VALVE SEAT	BRASS	BRASS	BRASS	BRASS	CF8/CF8M	CF8/CF8M
3	閥桿 STEM	BRASS (2" Using SUS303)	BRASS (2" Using SUS303)	BRASS (2" Using SUS303)	BRASS (2" Using SUS303)	BRASS (2" Using SUS303)	SUS304
4	彈簧座 SPRING SEAT	BRASS	BRASS	BRASS	BRASS	BRASS	SUS304
5	閥盤 DISC	BRASS	BRASS	BRASS+PTFE	BRASS+VITON	SUS304/316	SUS304/316
6	閥蓋 CAP	BRONZE	BRASS	BRONZE	BRASS	BRONZE	CF8
7	彈簧 SPRING	STEEL / SUS304	STEEL / SUS304	STEEL / SUS304	STEEL / SUS304	STEEL / SUS304	SUS304
8	螺帽 NUT	BRASS	BRASS	BRASS	BRASS	BRASS	SUS304
9	調整螺絲 ADJUST SCREW	BRASS	BRASS	BRASS	BRASS	BRASS	SUS304
10	把手 HANDLE	STEEL	-	STEEL	-	STEEL	SUS304
使用壓力 WORKING PRESSURE (Kg/cm2) 詢問:各尺寸有所差異 Lnquiry: Each size varies		0.5~20		0.5~20	0.5~20	0.5~20	0.5~40
使用溫度 WORKING TEMP.(°C)		-50~200°C		-50~200°C	-40~200°C	-50~200°C	-50~200°C

Please contact us for the custom size, pressure and actual material *Initial Discharge occurs below the set pressure.

特殊尺寸，調壓範圍及實際材質或使用溫度需求，需與廠商聯繫訂製。*初噴現象早於設定壓力。

BROZNE:ASTM B584 C84400 BRASS:ASTM B16 C36000/C3604

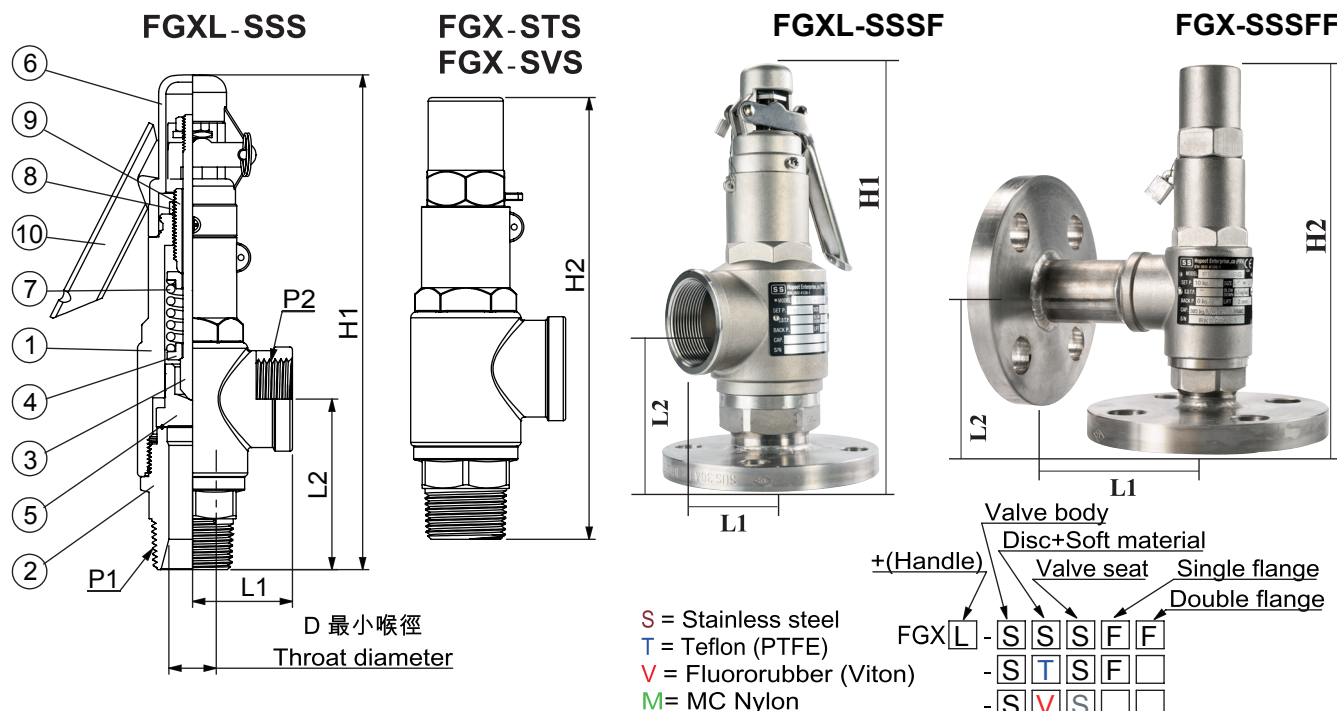
尺寸表 Dimension (mm)

入口 P1 Inlet	最小喉徑 D Throat diameter	出口 P2 Outlet	L1	L2	H1	H2
1/2"	13	1/2"	34.5	47.5	159	134
3/4"	13	3/4"	37	50.25	167	142
1"	21	1"	42	63	197	175.5
1-1/4"	26	1-1/4"	50.5	73	219.4	198.5
1-1/2"	30	1-1/2"	58	83.9	252.3	231.4
2"	39	2"	65	87	283.5	251



更多安全閥
性能資訊
More about
Performances

STAINLESS STEEL SAFETY VALVES 高揚程安全閥



材質表 General material

NO.	NAME	TYPE	FGXL-SSS 手拉式 Safety Valve with Lever metal to metal	FGX-SSS 密封式 Safety Valve with Sealing metal to metal	FGXL-SVS 手拉式 Safety Valve with Lever Disc insert Viton	FGX-SVS 密封式 Safety Valve with Sealing Disc insert Viton	FGXL-ST/STV 手拉式 Safety Valve with Lever Disc insert PTFE	FGX-ST/STV 密封式 Safety Valve with Sealing Disc insert PTFE	FGXL-SSSF 手拉式 Inlet: Flange Outlet: Thread	FGX-SSSF 密封式 Inlet: Flange Outlet: Thread	FGXL-SSSFF 手拉式 Inlet: Flange Outlet: Flange	FGX-SSSFF 密封式 Inlet: Flange Outlet: Flange
1	閥體 VALVE BODY		CF8/CF8M	CF8/CF8M	CF8/CF8M	CF8/CF8M	CF8/CF8M	CF8/CF8M	CF8/CF8M	CF8/CF8M	CF8/CF8M	CF8/CF8M
2	閥座 VALVE SEAT		CF8/CF8M	CF8/CF8M	CF8/CF8M	CF8/CF8M	CF8/CF8M	CF8/CF8M	CF8/CF8M	CF8/CF8M	CF8/CF8M	CF8/CF8M
3	閥桿 STEM		SUS304	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304
4	彈簧座 SPRING SEAT		SUS304	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304
5	閥盤 DISC		SUS304/316	SUS304/316	SUS304/316 +VITON	SUS304/316 +VITON	SUS304/316 +PTFE	SUS304/316 +PTFE	SUS304/316	SUS304/316	SUS304/316	SUS304/316
6	閥蓋 CAP		CF8	CF8	CF8	CF8	CF8	CF8	CF8	CF8	CF8	CF8
7	彈簧 SPRING		SUS304	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304
8	螺帽 NUT		SUS304	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304
9	調整螺絲 ADJUST SCREW		SUS304	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304
10	把手 HANDLE		SUS304	-	SUS304	-	SUS304	-	SUS304	-	SUS304	-
使用壓力 WORKING PRESSURE (Kg/cm ²) 詢問:各尺寸有所差異 Inquiry: Each size varies			0.5~400		0.5~40		0.5~40		0.5~400		0.5~400	
使用溫度 WORKING TEMP.(°C)			-50~230°C		-50~200°C		-40~200°C		-50~230°C		-50~230°C	

Please contact us for the custom size, pressure and actual material. *Initial Discharge occurs below the set pressure.

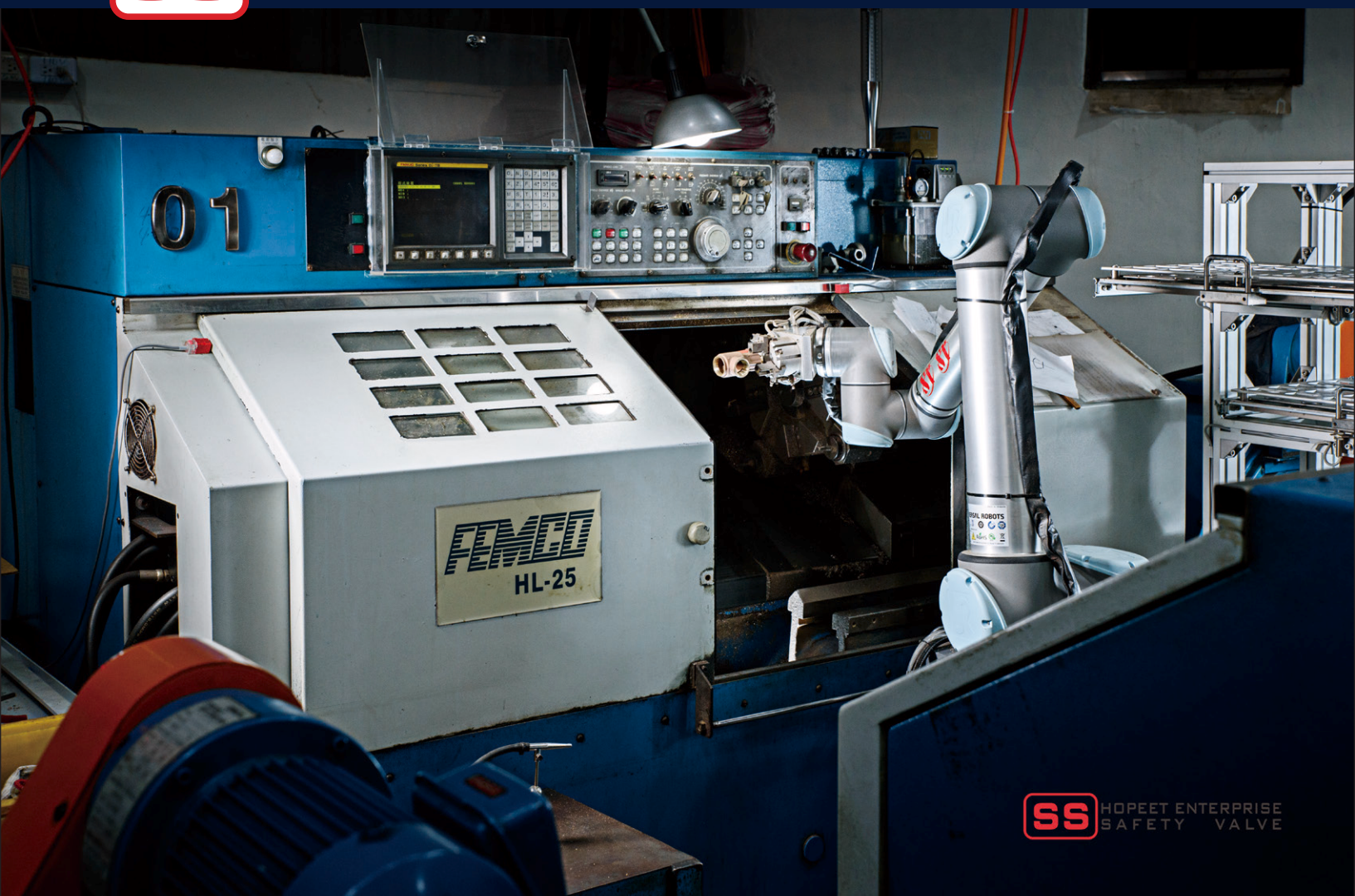
特殊尺寸，調壓範圍及實際材料需與廠商聯繫訂製。*初噴現象早於設定壓力。 CF8M:ASTM A351-CF8M 304: ASTM A276-304

尺寸表 Dimension
(FGXL-SSS-FGX-ST/STV) (mm)

NOMINAL					L1	L2	H1	H2
P1	*	D	*	P2				
1/2"	*	15	*	1"	41.25	65.5	199.5	177.5
3/4"	*	19.5	*	1"	41.25	65	199	177
1"	*	21	*	1"	41.25	70.5	204.5	182.5
1"	*	25	*	2"	65	100.3	284	260.5
1 1/4"	*	33	*	2"	65	100.8	284.5	261
1 1/2"	*	39	*	2"	65	101.3	285	261.5
2"	*	39	*	2"	65	104.3	288	264.5

尺寸表 Dimension
Type + Flanged ends (mm)

NOMINAL					FGXL~FGX (1 Flange)				FGXL~FGX (2 Flanges)			
P1	*	D	*	P2	L1	L2	H1	H2	L1	L2	H1	H2
1/2"	*	15	*	1"	41.25	70.5	204.5	182.5	105.75	70.5	204.5	182.5
3/4"	*	19.5	*	1"	41.25	70	204	182	105.75	70	204	182
1"	*	21	*	1"	41.25	75.5	209.5	187.5	105.75	75.5	209.5	187.5
1"	*	25	*	2"	65	105.3	289	265.5	133.5	105.3	289	265.5
1 1/4"	*	33	*	2"	65	106.8	290.5	267	133.5	106.8	290.5	267
1 1/2"	*	39	*	2"	65	107.3	291	267.5	133.5	107.3	291	267.5
2"	*	39	*	2"	65	110.3	294	270.5	133.5	110.3	294	270.5



小型安全閥 COMPACT SAFETY VALVES

*僅適用低壓以及超低流量



3/4"
S20



材質 SS303
1/4"
S30



1/2"
AZ-04



3/8~1/2"
CVS



1/4"~1"
HOP-411A



1/4"
HOP-411B



1/4"
HOP-411C



1/2"~3/4"
HOP-411D

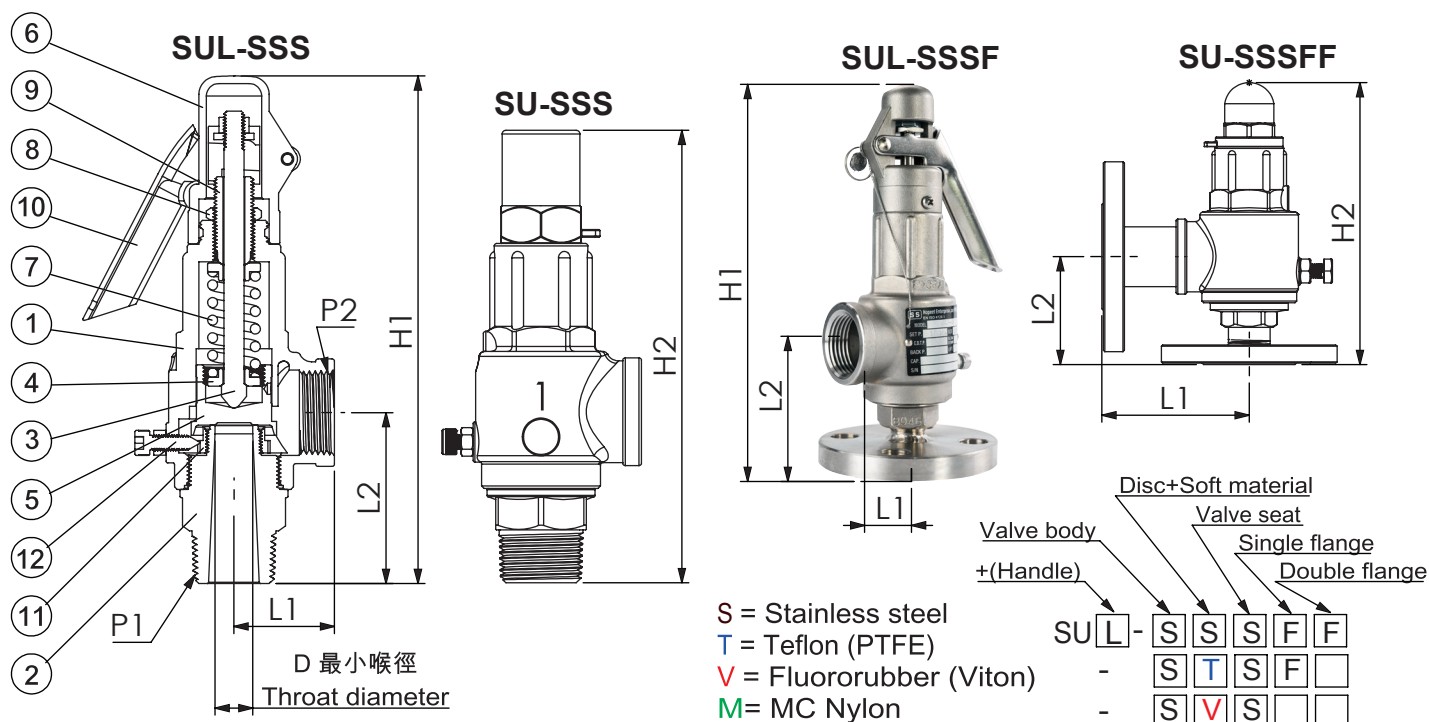


1/4"
HOP-411E



1/2"~1"
HOP-411F

STAINLESS STEEL FULL BORE SAFETY VALVE 全量型安全閥



材質表 General material

NO.	TYPE (example) NAME	SUL-SSS 手拉式 Safety Valve with metal to metal	SU-SSS 密封式 Safety Valve with Sealing metal to metal	SUL-SSSF 手拉式 Inlet : Flange Outlet : Thread	SU-SSSF 密封式 Inlet : Flange Outlet : Thread	SUL-SSSFF 手拉式 Inlet : Flange Outlet : Flange	SU-SSSFF 密封式 Inlet : Flange Outlet : Flange
1	閥體 VALVE BODY	CF8 / CF8M	CF8 / CF8M	CF8 / CF8M	CF8 / CF8M	CF8 / CF8M	CF8 / CF8M
2	閥座 VALVE SEAT	CF8 / CF8M	CF8 / CF8M	CF8 / CF8M	CF8 / CF8M	CF8 / CF8M	CF8 / CF8M
3	閥桿 STEM	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304
4	彈簧座 SPRING SEAT	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304
5	閥盤 DISC	SUS304/316	SUS304/316	SUS304/316	SUS304/316	SUS304/316	SUS304/316
6	閥蓋 CAP	CF8	CF8	CF8	CF8	CF8	CF8
7	彈簧 SPRING	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304
8	螺帽 NUT	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304
9	調整螺絲 ADJUST SCREW	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304
10	把手 HANDLE	SUS304	-	SUS304	-	SUS304	-
11	下環 LOW RING	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304
12	固定螺絲 FIX SCREW	SUS304	SUS304	SUS304	SUS304	SUS304	SUS304
使用壓力 WORKING PRESSURE (Kg/cm ²)		0.5~25 詢問:各尺寸有所差異 Inquiry: Each size varies					
使用溫度 WORKING TEMP(°C)		-50~230°C					

Please contact us for the custom size, pressure and actual material. *Initial Discharge occurs below the set pressure.

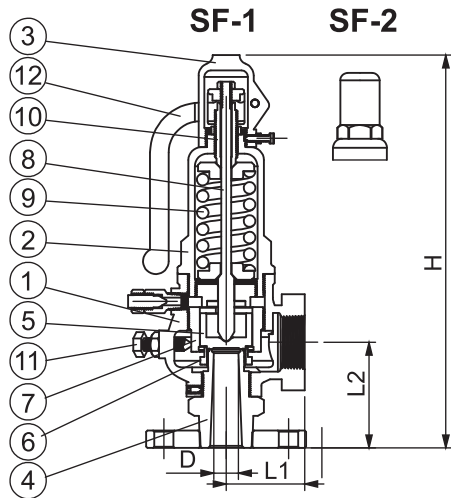
特殊尺寸，調壓範圍及實際材料需與廠商聯繫訂製。*初噴現象早於設定壓力。

CF8M:ASTM A351-CF8M 304: ASTM A276-304

尺寸表 Dimension (mm)

尺寸表 Dimension (mm)																							
									NOMINAL					SUL-SSSF ~ SU-SSSF				SUL-SSSFF ~ SU-SSSFF					
														L1	L2	H1	H2						
									NOMINAL					L1	L2	H1	H2						
									P1	*	D	*	P2										
1/2"	*	14	*	1"	40	60.8	194.8	172.8	1/2"	*	14	*	1"	40	65.8	199.8	177.8	104.5	65.8	199.8	177.8		
3/4"	*	15	*	1"	40	65.4	199.4	177.4	3/4"	*	15	*	1"	40	70.4	204.4	182.4	104.5	70.4	204.4	182.4		
1"	*	15	*	1"	40	68	202	180	1"	*	15	*	1"	40	73	207	185	104.5	73	207	185		
1"	*	19	*	1 1/4	52	71.7	215.9	195.4	1"	*	19	*	1 1/4"	52	76.6	221.9	200.4	104.7	77	221.9	200.4		
1 1/2"	*	30	*	2"	66	92	282.9	259.4	1 1/2"	*	30	*	2"	66	98	288.9	265.4	134.5	98	288.9	265.4		
2"	*	30	*	2"	66	93	283.9	260.4	2"	*	30	*	2"	66	99	289.9	266.4	134.5	99	289.9	266.4		
2"	*	36	*	2 1/2"	76.5	103.5	300.9	277.4	2"	*	36	*	2 1/2"	76.5	109.5	306.9	283.4	150	109.5	306.9	283.4		
2 1/2"	*	36	*	2 1/2"	76.5	104.5	301.9	278.4	2 1/2"	*	36	*	2 1/2"	76.5	110.5	307.9	284.4	150	110.5	307.9	284.4		

FULL BORE SAFETY VALVE 大型全量型安全閥



Fluid : Steam,Air,Gas,Liquid.
 Temperature : MAX=300°C ,Min=-5°C
 Connection : Flanged ANSI 300,150,,jis10K
 Pressure :
 FC : 0.3~10Kg
 WCB : 0.3~40Kg
 SUS : 0.3~40Kg
 流體：蒸氣、空氣、液體
 使用溫度：-5° c~300° c
 接口規格：法蘭ANSI300, 150, JIS10K
 壓力範圍：
 鑄鐵：0.3~10Kg
 鑄鋼：0.3~40Kg
 不鏽鋼：0.3~40Kg

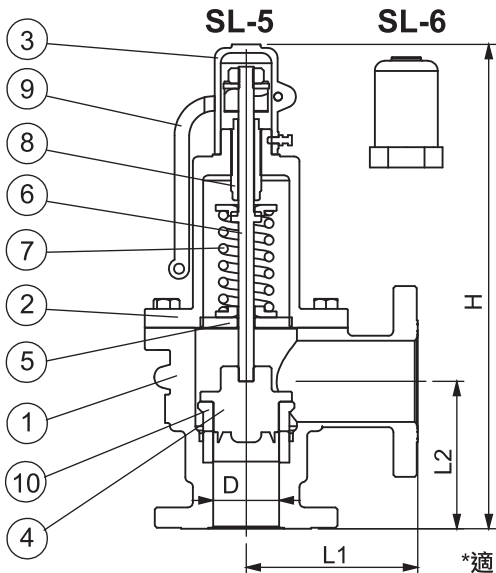


NO.	NAME	MATERIAL		
		FC	SCS 13	WCB
1	閥體 BODY	FC20	SCS 13	WCB
2	閥蓋 BONNET	FC20	SCS 13	WCB
3	帽蓋 CAP	FC20	SCS 13	WCB
4	閥座 BODY SEAT	SUS 304	SUS 304	SUS 304
5	閥盤 VALVE DISC	SUS 304	SUS 304	SUS 304
6	下環 LOWER RING	SCS13	SUS 304	SUS 304
7	上環 UPPER RING	BsBm	SUS 304	SUS 304
8	閥桿 STEM	SUS 304	SUS 304	SUS 304
9	彈簧 SPRING	SUP 6	SUS 304	SUS 304
10	調整螺絲 ADJUSTING SCREW	SUS 410	SUS 304	SUS 304
11	下環固定螺絲 ROOT SCREW	SS 310	SUS 304	SUS 304
12	拉桿 LEVER	WCB	SUS 304	SUS 304

*適用於鍋爐、高壓容器

口徑 Seat Dia	喉徑面積 Throat Dia		揚程 Lift	出入口中心		高 Height
D	dt	n(mm)	I	L1	L2	H
20*15*25	15	176.6	3.8	50	77	273
20*19*32	19	283.3	5	64	87	322
40*30*50	30	706.5	7.5	71	113	405
50*38*65	38	1133.5	9.5	85	125	450

LOW LIFT SAFETY VALVE 大型低揚程安全閥



Fluid : Steam,Air,Gas,Liquid.
 Temperature : MAX=300°C ,Min=-5°C
 Connection : Flanged ANSI 300,150,,jis10K
 Pressure :
 FC : 0.3~10Kg
 WCB : 0.3~20Kg
 SUS : 0.3~20Kg
 流體：蒸氣、空氣、液體
 使用溫度：-5° c~300° c
 接口規格：法蘭ANSI300, 150, JIS10K
 壓力範圍：
 鑄鐵：0.3~10Kg
 鑄鋼：0.3~20Kg
 不鏽鋼：0.3~20Kg

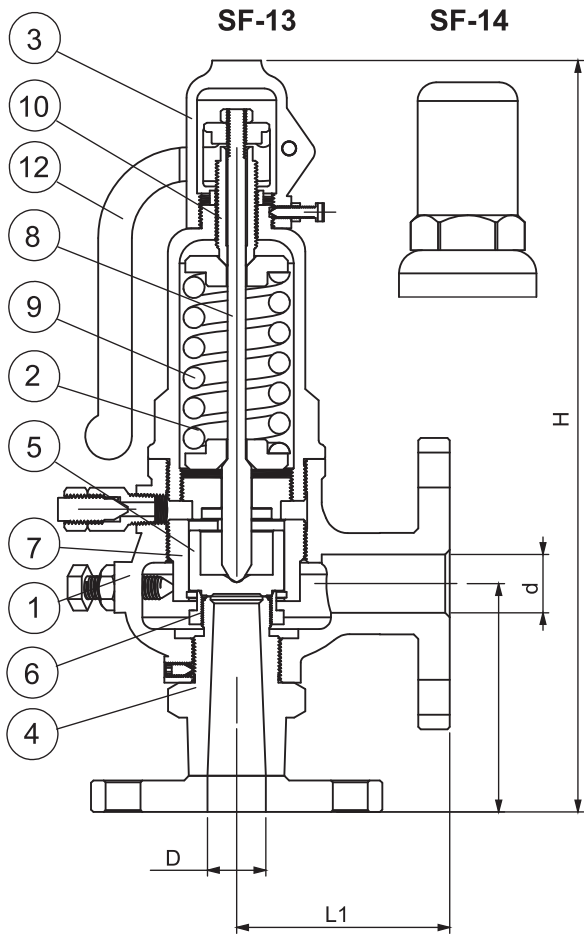


NO.	NAME	MATERIAL		
		FC20	SCS 13	WCB
1	閥體 BODY	FC20	SCS 13	WCB
2	閥蓋 BONNET	FC20	SCS 13	WCB
3	帽蓋 CAP	FC20	SCS 13	WCB
4	閥盤 DISC	SUS 304	SUS 304	SUS 304
5	閥桿座 STEM GUIDE	FC20	SUS 304	SUS 304
6	閥桿 STEM	SUS 410	SUS 304	SWPA
7	彈簧 SPRING	SWPA	SUS 304	WCB
8	調整螺絲 ADJUSTING SCREW	BSBF	BSBF	BSBF
9	拉桿 HANDLE	BSBM	SUS 304	BC
10	密封 SEAL	SUS 304	SUS 304	SUS 304

*適用於鍋爐、高壓容器

出徑	入徑	喉徑面積 Throat Dia	揚程 Lift	出入口中心		高 Height
d	D	n(mm)	I	L1	L2	H
25	25	490.6	0.7	89	74	300
40	40	1256	1.0	106	106	365
50	50	1962.5	1.3	110	110	399
65	65	3316.6	1.7	117	116	460
75	75	4415.6	1.9	147	146	517
90	90	6358.5	2.3	188	170	678
100	100	7850	2.5	189	180	624
120	120	11304	3.0	200	190	710
125	125	12265	3.2	190	183	720
150	150	17662	3.8	210	210	800

FULL BORE SAFETY VALVE 大型雙邊法蘭全量型安全閥



Fluid : Steam,Air,Gas,Liquid.
 Temperature : MAX=300°C ,Min=-5°C
 Connection : Flanged ANSI 300,150,,jis10K
 Pressure :
 FC : 0.3~10Kg
 WCB : 0.3~40Kg
 SUS : 0.3~40Kg

流體：蒸氣、空氣、液體
 使用溫度：-5° c~300° c
 接口規格：法蘭ANSI300, 150, JIS10K
 壓力範圍：
 鑄鐵：0.3~10Kg
 鑄鋼：0.3~40Kg
 不鏽鋼：0.3~40Kg

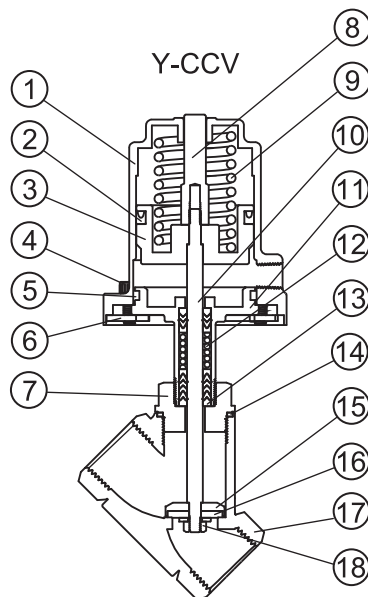
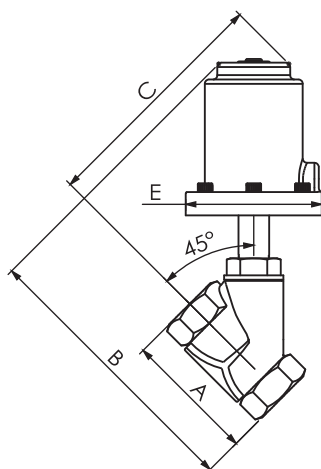


*適用於鍋爐、高壓容器

材質表 General material				
NO.	NAME	MATERIAL		
		FC	SCS 13	WCB
1	閥體 BODY	FC20	SCS 13	WCB
2	閥蓋 BONNET	FC20	SCS 13	WCB
3	帽蓋 CAP	FC20	SCS 13	WCB
4	閥座 BODY SEAT	SUS 304	SUS 304	SUS 304
5	閥盤 VALVE DISC	SUS 304	SUS 304	SUS 304
6	下環 LOWER RING	SCS13	SUS 304	SUS 304
7	上環 UPPER RING	SCS13	SUS 304	SUS 304
8	閥桿 STEM	SUS 304	SUS 304	SUS 304
9	彈簧 SPRING	SUP 6	SUS 304	SUS 304
10	調整螺絲ADJUSTING SCREW	SUS 410	SUS 304	SUS 304
11	下環固定螺絲ROOT SCREW	SS 310	SUS 304	SUS 304
12	拉桿 LEVER	WCB	SUS 304	SUS 304

尺寸表 Dimension (SF-13 SF-14)						
口徑 Seat Dia	喉徑面積 Throat Dia		揚程 Lift	出入口中心		高 Height
di*dt*do	dt	n(mm)	I	L1	L2	H
25*19*40	19	283.3	5	105	95	225
40*30*65	30	706.5	7.5	125	120	290
50*38*80	38	1133.5	9.5	135	125	340
65*49*100	49	1884.7	12.5	155	140	395
80*61*125	61	2920.9	15.5	175	160	480
100*76*150	76	4534.1	19	205	180	555
125*95*200	95	7084.6	24	225	210	685
150*115*200	115	10381.6	29	255	220	815

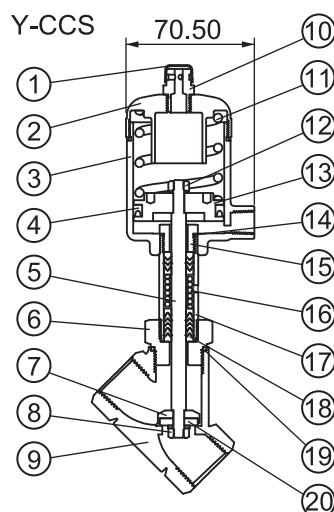
"Y" TYPE CYLINDER CONTROL VALVES Y型汽缸式控制閥



適合流體：水，空氣，蒸氣，油
SUITABLE FLUIDS: WATER, AIR, STEAM, OIL.
工作壓力：0~16Kg/cm²
WORKING PRESSURE
工作溫度：0°C~180°C
WORKING TEMP

材質表 General material		
NQ	NAME	MATERIAL
1	汽缸 CYLINDER	CF8
2	U型環 UHS-RING	NBR
3	活塞 PISTON	AL
4	螺絲 SCREW	SUS304
5	O型環 O-RING	NBR
6	固定片 FIXED NUT	SUS304
7	閥螺帽 VALVE NUT	SUS304
8	指示桿 INDICATOR SHAFT	AL
9	彈簧 SPRING	SWPB
10	閥桿 STEM	SUS316
11	汽缸座 CYLINDER BASE	SUS304
12	彈簧 SPRING	SUS304
13	密封 GASKET	PTFE
14	密封 GASKET	PTFE
15	閥座 SEAT	SUS304
16	密封墊片 GASKET	PTFE
17	閥體 BODY	CF8M
18	螺母 NUT	SUS304

尺寸表 Dimension						
SIZE	A	B	C	E	MAX.PRESSURE (Kg/cm ²)	OPERATING PRESSURE (Kg/cm ²)
1/4" (8)	65.5	174	150	93	0~16	3~10
3/8" (10)	65.5	174	150	93	0~16	3~10
1/2" (15)	65.5	174	150	93	0~16	3~10
3/4" (20)	75	182	157	93	0~16	3~10
1" (25)	90	192	164	93	0~16	3~10
1-1/4" (32)	111.5	234	203	117	0~16	3~10
1-1/2" (40)	122	241	205	117	0~16	3~10
2" (50)	152	256	212	117	0~16	3~10
2-1/2" (65)	182	248	252	117	0~16	3~10



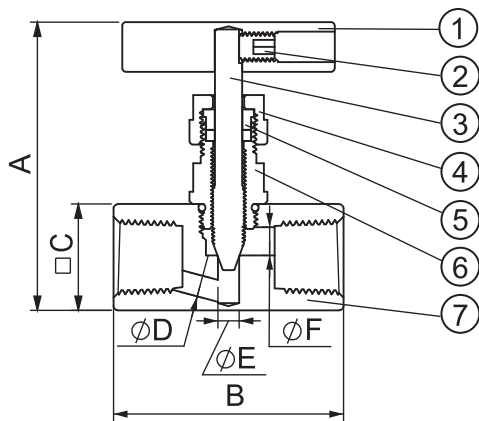
尺寸表 Dimension		
SIZE	MAX.PRESSURE (Kg/cm ²)	OPERATING PRESSURE (Kg/cm ²)
1/2" (15)	0~16	3~10
3/4" (20)	0~16	3~10
1" (25)	0~16	3~10

適合流體：水，空氣，蒸氣，油
SUITABLE FLUIDS: WATER, AIR, STEAM, OIL.
工作壓力：0~16Kg/cm²
WORKING PRESSURE
工作溫度：0°C~180°C
WORKING TEMP

材質表 General material		
NO.	NAME	MATERIAL
1	覆蓋罩 COVER	SUS304
2	汽缸蓋 CYLINDER COVER	CF8
3	汽缸 CYLINDER	CF8
4	U型環 UHS-RING	NBR
5	閥桿 STEM	SUS316
6	閥螺帽 VALVE NUT	SUS304
7	閥座 SEAT	SUS304
8	螺母 NUT	SUS304
9	閥體 BODY	CF8M
10	呼吸螺母 NUT	BRASS
11	彈簧 SPRING	SWPB
12	螺母 NUT	SUS304
13	活塞 PISTON	AL
14	O型環 O-RING	NBR
15	螺栓 STUD BOLT	BRASS
16	彈簧 SPRING	SUS304
17	接管 TUBE	SUS304
18	密封 GASKET	PTFE
19	密封 GASKET	PTFE
20	密封墊片 GASKET	PTFE

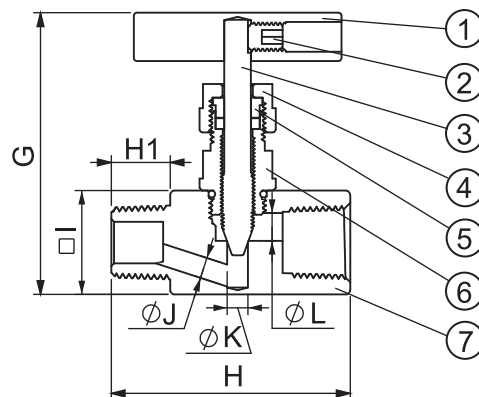
6000 PSI STAINLESS STEEL NEEDLE VALVES不鏽鋼針閥

材質表 General material		
NO.	NAME	MATERIAL
1	把手 HANDLE	SUS304
2	螺絲 SCREW	SUS304
3	心子 SPINDLE	SUS316
4	螺帽 NUT	SUS304
5	上環 PACKING	PTFE
6	底座 BASE	ND6000(M)-SUS304 ; NDL6000-Brass plating
7	本體 BODY	CF8M



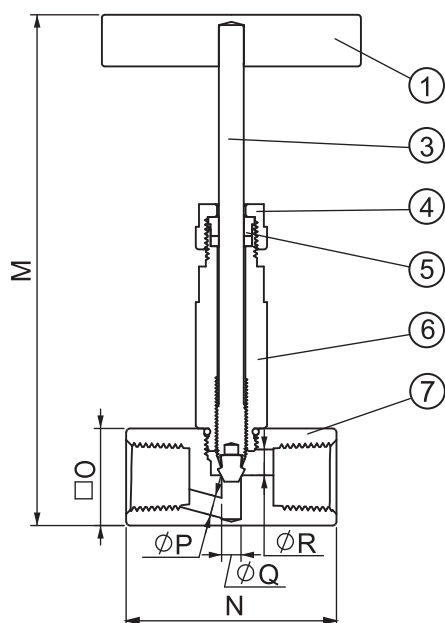
ND-6000

尺寸表 Dimension (ND-6000 內牙式)						
SIZE	A	B	□C	ΦD	ΦE	ΦF
1/8"	77	45.5	22	5	6	5
1/4"	77	45.5	22	5	6	5
3/8"	78	59.5	25	5	6	6.3
1/2"	81	65	30	6	6	8
3/4"	113	70	35	8	8	10
1"	116	80	45	8	8	12
1 1/2"	154.5	100	60	10	10	12
2"	165.5	110	73	11	11	13.5



ND-6000M

尺寸表 Dimension (ND-6000M 內牙式)							
SIZE	G	H1	H	□I	ΦJ	ΦK	ΦL
1/4"	77	14	54	22	5	6	5
3/8"	78	15	60.5	25	5	6	6.3
1/2"	81	17	69	30	6	6	8
3/4"	113	18	76	35	8	8	10
1"	116	21	83	45	8	8	12



NDL-6000

尺寸表 Dimension (NDL-6000 內牙式)						
SIZE	M	Q	□O	ΦP	ΦQ	ΦR
1/2"	158	65	30	6	6	8
3/4"	164	70	35	8	8	10

ND 6000



ND-6000M

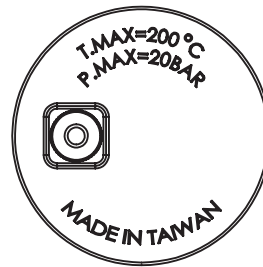
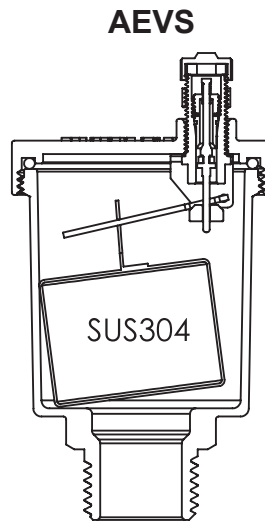
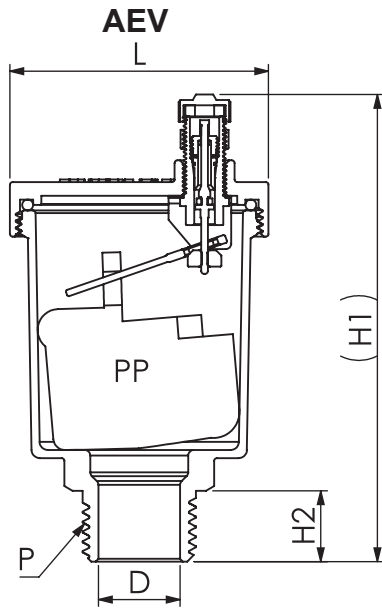


NDL-6000



AEV / AEVS 自動排氣閥 EXHAUST VALVES

- Air release only, no water discharge, with a water-air separation design.
- 水氣分離結構設計，只排出氣體不排水。
- It is recommended to install it at the highest point of the pipeline to allow easy air venting. Only suitable for vertical installation.
- 建議安裝在管道的高處，以便從管道中輕鬆排氣。（僅適用於垂直安裝。）
- A shut-off valve is recommended in the front for easier maintenance.
- 前端連接遮斷閥，以便於維護。



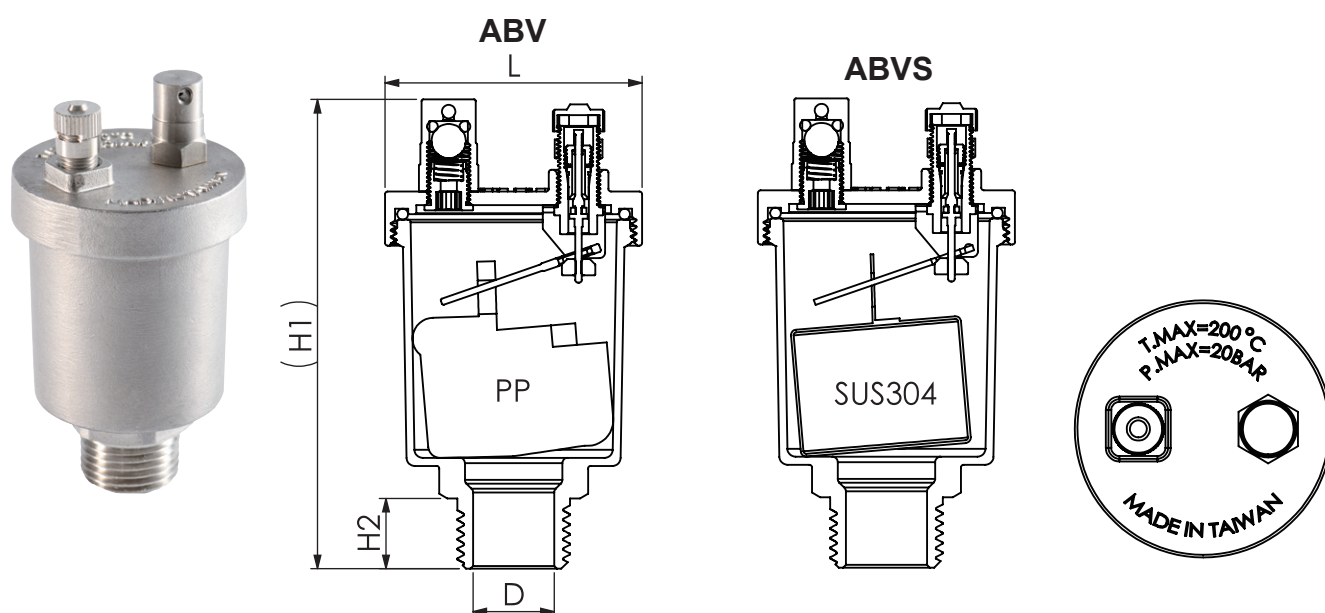
適用介質 Applicable medium		純水 (浮球使用PP 或 SUS304) 輕質油 (浮球使用SUS304) Pure water (Floating ball using PP or SUS304) Light oil (Floating ball using SUS304)
最大工作壓力 Working pressure		Maximum 20Bar
最高工作溫度 Working Temperature		Maximum: SUS 200 °C / PP 100 °C
材質 Material	本體&本體蓋 Body & Main body lid	CF8M / CF8
	帽蓋 CAP	BRASS
	浮球&導桿 Ball float & Guide rod	PP / SUS304
	閥片&密封 Disc & Packing	Silicon
其它配件 Other parts		SUS 304

Dimension		mm		
Size P	L	H1	H2	D
3/8"	47.5	83.5	12.5	11
1/2"		85.8	13	15
3/4"		87.8	15	20.5
1"		90.8	16	24

How To Order 選型			
Type 型號	Or	Type 型號	Thread type 螺紋類型
AEV 3/8"		AEVS 3/8"	PT NPT PF
AEV 1/2"		AEVS 1/2"	
AEV 3/4"		AEVS 3/4"	
AEV 1"		AEVS 1"	

ABV / ABVS 自動呼吸閥 BREATHING VALVE

- Automatically intake air when the pipeline is under negative pressure.
- 當管道內為負壓時，自動進氣。
- Efficiently eliminates air from the pipeline to minimize noise and ensure stable performance of water control systems.
- 有效地排除管道中的空氣，減少管道內空氣產生的噪音或影響水路控制機制。
- It is recommended to install it at the highest point of the pipeline to allow easy air venting. Only suitable for vertical installation.
- 建議安裝在管道的高處，以便從管道中輕鬆排氣。（僅適用於垂直安裝。）
- A shut-off valve is recommended in the front for easier maintenance.
- 前端連接遮斷閥，以便於維護。



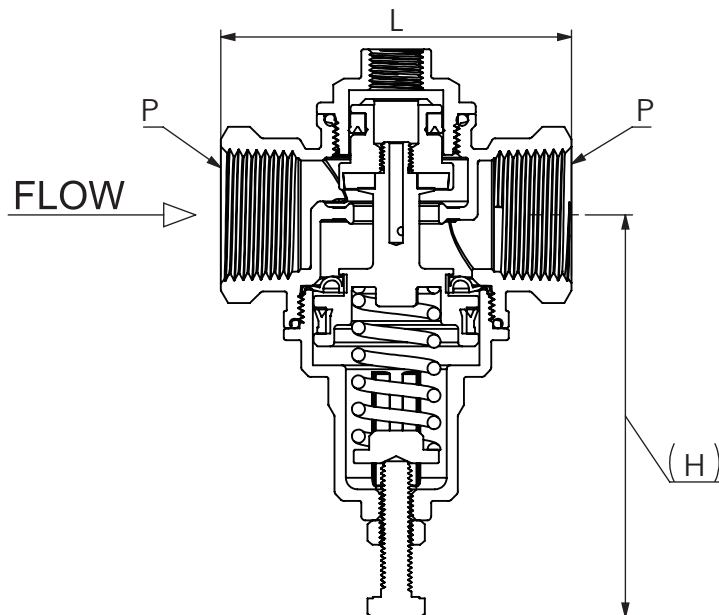
適用介質 Applicable medium		純水 (浮球使用PP 或 SUS304) 輕質油 (浮球使用SUS304) Pure water (Floating ball using PP or SUS304) Light oil (Floating ball using SUS304)	
最大工作壓力 Working pressure		Maximum 20Bar	
最高工作溫度 Working Temperature		Maximum: SUS 200 °C / PP 100 °C	
材質 Material	本體&本體蓋 Body & Main body lid	CF8M / CF8	
	帽蓋 CAP	BRASS	
	浮球&導桿 Ball float & Guide rod	PP / SUS304	
	閥片&密封 Disc & Packing	Silicon	
其它配件 Other parts		SUS 304	

Dimension		mm		
Size P	L	H1	H2	D
3/8"	47.5	84.4	12.5	11
1/2"		86.7	13	15
3/4"		88.7	15	20.5
1"		91.7	16	24

How To Order 選型			
Type 型號	Or	Type 型號	Thread type 螺紋類型
ABV 3/8"		ABVS 3/8"	PT NPT PF
ABV 1/2"		ABVS 1/2"	
ABV 3/4"		ABVS 3/4"	
ABV 1"		ABVS 1"	

PRV SERIES 直動減壓閥 (內牙式) DIRECT ACTIVATED PRESSURE REDUCING VALVE

- Applicable equipment: Pipeline / Pressure vessel.
- 適用設備：管路/壓力容器
- Applicable medium: Water; air; oil; and weak acid alkaline fluid.
- 適用介質：水；空氣；油；及弱酸鹼性流體
- Can adjust the pressure on the outlet and stabilize the pressure in the pipe.
- 可調節出口壓力，同時達到穩壓的效果



入口側最大壓力 Maximum Inlet Pressure		1.96Mpa (20 kgf/cm ²)
使用溫度範圍 Temperature range		-15°C~100°C→VITON 101°C~200°C→FFKM
材質 Material	本體. 閥蓋 Body, Bonnet	CF8M / CF8
	閥座. 軸心 Seat, Stem	SUS304 / SUS316
	Oring. 軟墊. 膜片 Disc, Diaphragms	VITON / FFKM
公稱直徑 Nominal diameter		(15 . 20 . 25 . 32 . 40 . 50)

* VITON (不耐高溫 Not heat-resistant.), (酸鹼值範圍) PH range :-1.0~13.5;

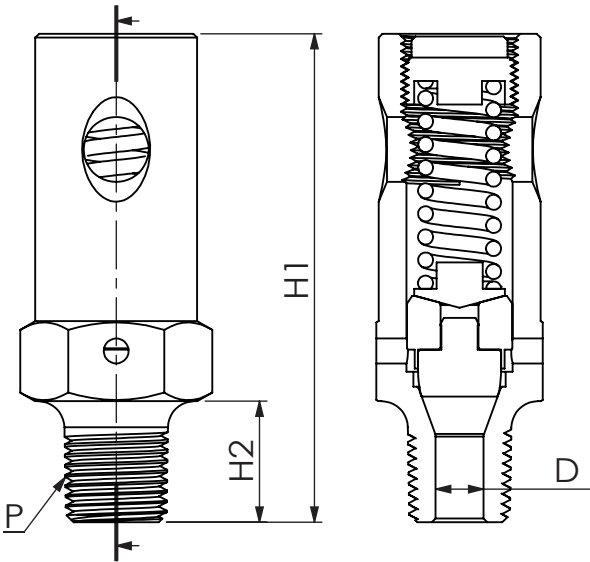
Please refer to catalog page 19 for the chemical property table. 化學性質表請參閱目錄第19頁。

Dimension (mm)		
Size P ("PT" thread)	L	(H)
1/2"	70.5	101
3/4"	85.6	101.6
1"	90.5	103.7
1-1/4"	98	105.5
1-1/2"	115.2	153.2
2"	120.8	153.7

TYPE 選型		
Type	型號	Pressure Range Mpa(kgf/cm ²) 調壓範圍Mpa(kgf/cm ²)
PRV 1/2"		0.098~0.490Mpa(1~5 kgf/cm ²) 0.491~0.980Mpa (5.01~10 kgf/cm ²)
PRV 3/4"		
PRV 1"		
PRV 1-1/4"		
PRV 1-1/2"		
PRV 2"		
Beyond the standard pressure range, the product may malfunction. 超出調節壓力範圍，不能保證功能正常。		

MC-K SERIES 冷媒安全閥 REFRIGERANT SAFETY VALVE

- Applicable equipment: Refrigerant pressure vessel / Reservoir.
- 適用設備：冷媒壓力容器 / 廚液器設備
- Applicable medium: Refrigerant, frozen oil, and water.
- 適用介質：冷媒，冷凍油及水
- Temperature range: -40°C ~ 149°C
- 溫度範圍：-40°C ~ 149°C
- Maximum Inlet Pressure: 600 psi
- 最大進氣壓力：600 psi
- Set pressure range: 70~580 psi
- 設定壓力範圍：70 ~ 580 psi
- Caliber specifications: 1/4"; 3/8"
- 口徑規格：1/4" ; 3/8"
- Series are clanded for use in oxygen per CGA G-4.1, 100% factory test.
- 依照CGA G-4.1標準清洗，100%出廠測試
- Pressure presetted and glue fixed.
- 出廠壓力設定完成後點膠固定



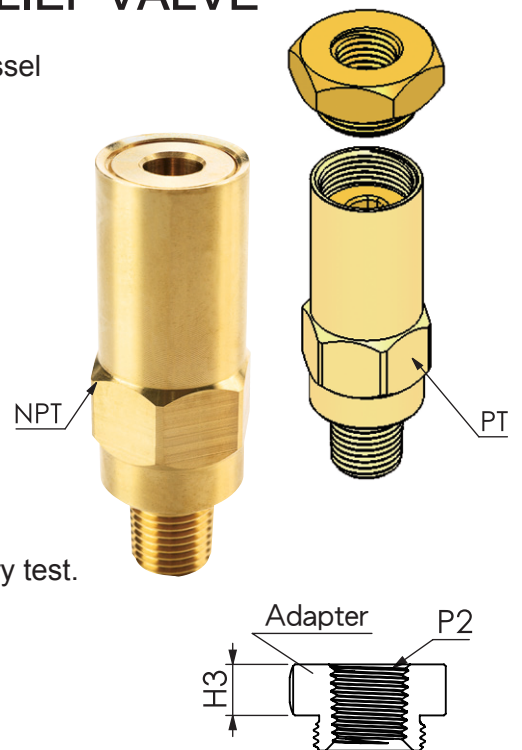
零件 Component	材質 Material
本體 Body 閥座 Poppet 調壓螺絲 Adjusting Screw	黃銅 Brass
彈簧 Spring	鋼 STEEL
密封 Seal	PTFE
其他配件 Other parts	黃銅 Brass

Dimension 規格尺寸			
P	D (mm)	H1 (mm)	H2 (mm)
1/4" PT	6.35	64.6	16
3/8" PT	9.5		

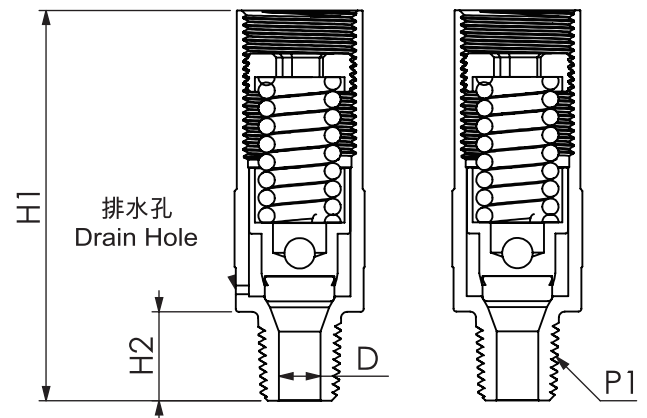
How To Order 選型		
Type 類型	Size 尺寸	Set Press 設定壓力
MC-K	02: (1/4")	70~580 Psi
	03: (3/8")	

MC-A SERIES 低溫安全閥 RELIEF VALVE

- Applicable equipment: cryogenic pipeline / cryogenic pressure vessel
■ 適用設備：低溫管路 / 低溫壓力容器
- Applicable medium: LNG; LO₂; LN₂; LAr; and non-corrosive gas
■ 適用介質：LNG; LO₂; LN₂; LAr, 及非腐蝕性氣體
- Temperature range:-196°C ~ 74°C
■ 溫度範圍：-196°C ~ 74°C
- Maximum Inlet Pressure:600 psi
■ 最大進氣壓力：600 psi
- Set pressure range:75~500 psi
■ 設定壓力範圍：75 ~ 500 psi
- Caliber specifications:1/4"; 3/8"; 1/2"
■ 口徑規格：1/4" ; 3/8"; 1/2"
- Series are clanded for use in oxygen per CGA G-4.1, 100% factory test.
■ 依照CGA G-4.1標準清洗，100%出廠測試
- Pressure presetted and glue fixed.
■ 出廠壓力設定完成後點膠固定



零件 Component	材質 Material
本體 Body 閥座 Poppet 調壓螺絲 Adjusting Screw 轉接頭 Adapter	黃銅 C3600
彈簧 Spring	不鏽鋼 SU302/304
密封 Seal	鐵氟龍 PTFE



Dimension 規格尺寸					
P1	H1 inch(mm)	P2	H2 inch(mm)	H3 inch(mm)	D inch(mm)
1/4" NPT / PT	2.63" (66.7)	1/4" NPT / PT	0.6" (15.2)	11/32" (8.73)	0.28" (7.1)
3/8" NPT / PT		3/8" NPT / PT		11/16" (17.46)	
1/2" NPT / PT		1/2" NPT / PT		3/4" (19.05)	

Standard product with no adapter 標準出廠無附轉接頭					
Type 類型	Size 尺寸	Set Press 設定壓力	Drain Hole 排水孔	Adapter 轉接頭	
MC-A	02(NPT / PT) : (1/4")	75~500 Psi	A:有 (exist) B:無 (nix)標準出廠 Standard product	02(NPT / PT) : (1/4") 03(NPT / PT) : (3/8") 04(NPT / PT) : (1/2")	
	03(NPT / PT) : (3/8")				
	04(NPT / PT) : (1/2")				

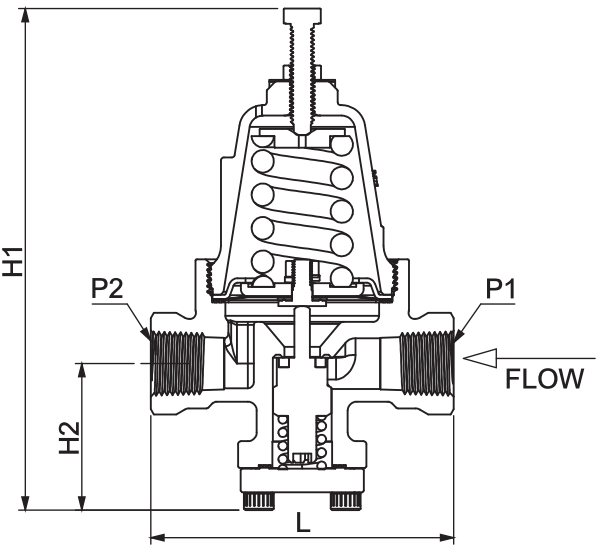
13 *Example: MA-A 02NPT 350B 02NPT

MRVC SERIES 緊湊型調壓閥(高壓低流) PRESSURE REGULATOR

- Application: cryogenic pipeline / cryogenic pressure vessel
- 適用設備：低溫管路／低溫壓力容器
- Application medium: LNG ; LO₂ ; LN₂ ; LAr ; and non-corrosive gas.
- 適用介質：LNG ; LO₂ ; LN₂ ; LAr ; 及非腐蝕性氣體
- Temperature range: -196°C ~ 65°C
- 溫度範圍：-196°C ~ 65°C
- Maximum Inlet Pressure: 600 psi
- 最大進氣壓力：600 psi
- Set pressure range: 20 ~ 600 psi
- 設定壓力範圍：20 ~ 600 psi
- Caliber specifications: 1/2"
- 口徑規格：1/2"
- Valves are cleaned by CGA-G-4.1 standard for the oxygen application . 100% factory test.
- 依照CGA G-4.1標準清洗，100%出廠測試
- Can adjust the pressure on the outlet and stabilize the pressure in the pipe .
- 可調節出口壓力，同時達到穩壓的效果



零件 Component	材質 Material
本體 Body	黃銅 C3771
閥蓋 Bonnet	青銅 Bronze
彈簧 Spring 螺絲 Screw 螺帽 Nut	不鏽鋼 304
密封 Seal	PTFE + FRP
閥座 Poppet	PTFE
膜片 Diaphragms	磷青銅 Phosphor Bronze
銘牌 Nameplate	鋁 Aluminum
其它配件 Other parts	黃銅 Brass

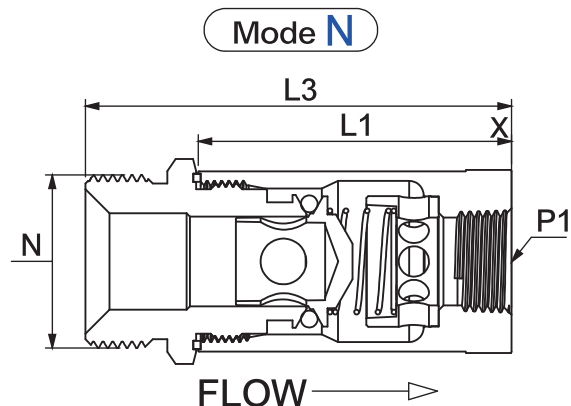
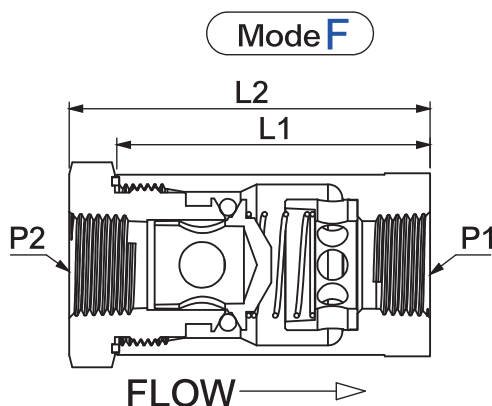


TYPE 選型	
Type 型號	Pressure Range Mpa(Psi) 調壓範圍Mpa(Psi)
MRVC-101	0.14~0.41 (20~60)
MRVC-102	0.28~0.55 (40~80)
MRVC-103	0.52~0.86 (75~125)
MRVC-104	0.69~1.72 (100~250)
MRVC-105	1.38~2.76 (200~400)
MRVC-201	2.07~4.14 (300~600)

Dimension 規格尺寸				
P1	H1 inch (mm)	P2	H2 inch (mm)	L inch (mm)
1/2" NPT	6.62" (168.1)	1/2" NPT	1.93" (49.1)	4" (101.5)

CVM SERIES 單向閥 CHECK VALVE

- Application: LNG car bottle ; Cryogenic tank ; Cryogenic vessel.
- 適用設備：車載瓶；低溫儲罐；低溫容器
- Application medium: LNG ; LO₂ ; LN₂ ; LAr ; and non-corrosive gas.
- 適用介質：LNG；LO₂；LN₂；LAr；及非腐蝕性氣體
- Temperature range : -196°C ~ 80°C
- 溫度範圍：-196°C ~ 80°C
- Maximum working pressure: (Stinless Steel 3000psi ; Brass 1000psi)
- 最大工作壓力：不鏽鋼3000psi；黃銅限1000psi
- Opening pressure: 0.1 ~ 10psi
- 開啟壓力：0.1 ~ 10psi
- Caliber specifications: 1/2", 3/4"
- 口徑規格：1/2", 3/4"
- High flow, zero leak, Valves are cleaned by CGA-G-4.1 standard for the oxygen application . 100% factory test.
- 高流量，零洩漏，依照CGAG-4.1 標準清洗. 100%出場測試



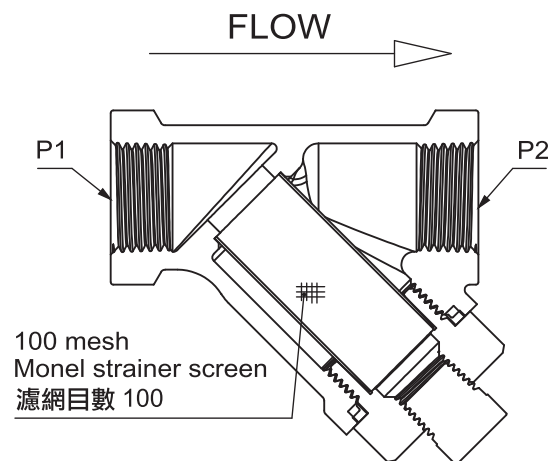
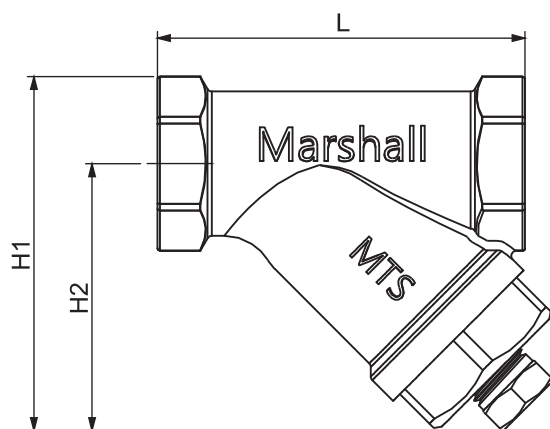
零件 Component	材質 Material	Dimension 規格尺寸				
本體 Body	黃銅Brass / SUS304	P1	P2	N	L1 inch (mm)	L2 inch (mm)
入口接頭 Inlet cap	黃銅Brass / SUS304					L3 inch (mm)
彈簧座 Spring retainer	黃銅Brass / SUS304	1/2" NPT	1/2" NPT	M36X2.0 M30X1.5	2.56(65)	2.93(74.5)
閥芯 Poppet	黃銅Brass / SUS304					3.46(88)
止回環 Check ring	PTFE	3/4" NPT	3/4" NPT		2.99(75.8)	3.39(86)
彈簧 Spring	SUS304					

TYPE 選型						
CVM	Body material 閥體材質	Connection structure 接口連接	Floating O-ring 阻塞環	Size 尺寸	Opening pressure 開啟壓力	Medium 選項
	B Brass S SUS304	F P1*P2(內螺紋*內螺紋) N P1* N (內螺紋*外螺紋)	T PTFE	03 1/2" 04 3/4"	1 0.1~0.4psi 2 0.5~1psi 3 2~4psi 4 6~10psi	S Standard OX Oxygen

*Example: **CVM-BNT032OX (M36)** or **CVM-BFT032OX**

MTS SERIES Y型過濾器 PATTERN STRAINERS

- Application: cryogenic pipeline / cryogenic liquid
- 適用設備: 低溫管路/低溫液體
- Application medium: LNG ; LO₂ ; LN₂ ; LAr ; and non-corrosive gas.
- 適用介質 : LNG ; LO₂ ; LN₂ ; LAr ; 及非腐蝕性氣體
- Temperature range: -196°C ~ 80°C
- 溫度範圍: -196°C ~ 80°C
- Pressure design: 600 WOG
- 設計壓力: 600 WOG
- Caliber specifications: 1/2"
- 口徑規格 : 1/2"
- Valves are cleaned by CGA-G-4.1 standard for the oxygen application .
100% factory test.
- 依照CGA G-4.1標準清洗,100%出廠測試



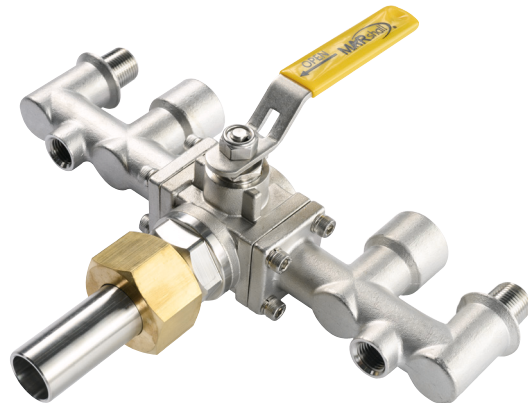
Dimension 規格尺寸				
P1	H1 inch (mm)	P2	L inch (mm)	H2 inch (mm)
1/2" NPT	2.7" (68.7)	1/2" NPT	2.8" (71.3)	2.04" (51.8)

零件 Component	材質 Material
本體 Body	黃銅 C3771
濾網 Strainer	蒙乃爾合金 Monel
密封 Seal	PTFE+FRP
閥蓋 Bonnet 牙塞 Sealed plug	黃銅 Brass

TYPE 選型	
Type 類型	Size 尺寸
MTS	1/2"

MTB SERIES THREE WAY BALL VALVE 三通球閥(分流閥)

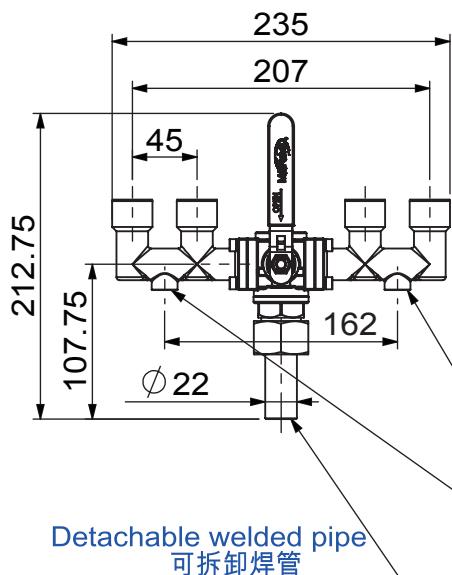
- Three ports or openings connected to a pipe through which gas or fluid can pass.
- 連接到管道的三個端口或開口，氣體或流體可以從中通過。
- These ports are one inlet and two outlets, depending on the direction of flow through the valve.
- 這些端口是一個入口和兩個出口，具體取決於流經閥門的方向。
- Maximum working pressure: 1000psi
- 最大工作壓力: 1000 psi
- Temperature range: -186 ~ 150
- 溫度範圍: -185°C ~ 150°C
- Applicable for replacing small safety valves
- 適用於更換小型安全閥



Three models (Display size: mm)

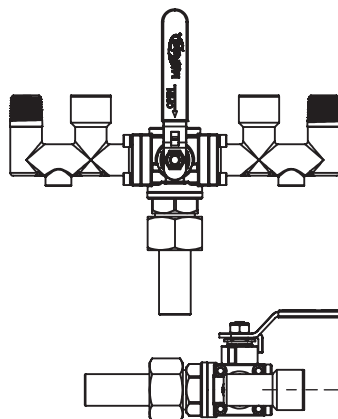
MTB-103C

1/2"NPT Female thread*4



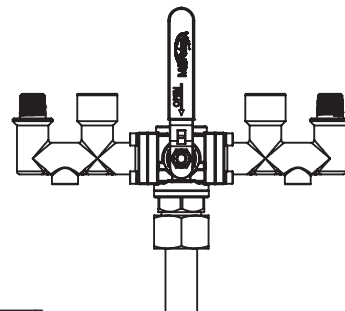
MTB-203C

1/2"NPT Female thread*2
1/2"NPT Male thread*2



MTB-203E

1/2"NPT Female thread*2
3/8"NPT Male thread*2



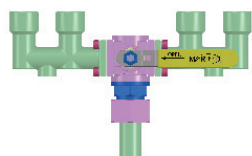
1/4"NPT Female thread 內牙(All types)

Body material: CF8; Handle: SUS304; Nut: Brass; Others: Teflon and stainless steel.
閥體材質: CF8; 手柄: SUS304; 螺母: 黃銅; 其他: 鐵氟龍和不銹鋼。

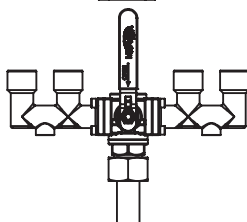
Switch fluid direction 切換流體方向



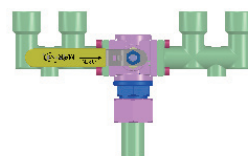
position 1



position 2



position 3



Flow CV value(流量 CV值): position 1 & position 3 CV: 4.0

Flow CV value(流量 CV值): position 2 CV: 7.86

安全閥常見流體表

氣體	代號	氣體	代號	氣體	代號	氣體	代號
氧氣	O2	空氣	Air	丙烷	C3H8	二氧化碳	CO2
氫氣	H2	甲烷/瓦斯	CH4	笑氣	N2O	甲苯	C7H8
氮氣	N2	冷媒	R22	六氟化硫	SF6	臭氧	O3
氨氣	NH ₃	冷媒	R404A	氦氣	He	水	Water
氬氣	Ar	冷媒	R507	丁烷	C4H10	煤油	Kerosene
乙二醇	C2H4(OH)2	冷媒	R134	四氟乙烷	R-134a		
乙炔	C ₂ H ₂	冷媒	R401A	氫氧化鈉	NaOH		

常用法蘭規格之匹配設定壓力

JIS (日規)

	10K	20K	30K	40K	63K
1/2"	1-10KG	1-20KG	1-30KG	1-40KG	1-63KG
3/4"	10KG	1-20KG	1-30KG	1-40KG	1-63KG
1"	10KG	1-20KG	1-30KG	1-40KG	1-63KG
1 1/4"	10KG	1-20KG	1-30KG	1-40KG	1-63KG
1 1/2"	10KG	1-20KG	1-30KG	1-40KG	1-63KG
2"	10KG	1-20KG	1-30KG	1-40KG	1-63KG
2 1/2"	10KG	1-20KG	1-30KG	1-40KG	1-63KG
3"	10KG	1-20KG	1-30KG	1-40KG	1-63KG

ANSI (美規)

DIN (德規)

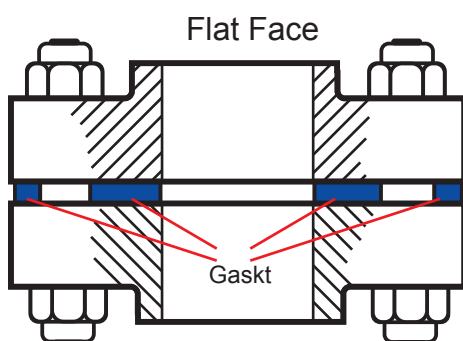
	150#	300#	600#	PN16	PN25	PN40
1/2"	1-10KG	1-21KG	1-42KG	1-16KG	1-25KG	1-40KG
3/4"	1-10KG	1-21KG	1-42KG	1-16KG	1-25KG	1-40KG
1"	1-10KG	1-21KG	1-42KG	1-16KG	1-25KG	1-40KG
1 1/4"	1-10KG	1-21KG	1-42KG	1-16KG	1-25KG	1-40KG
1 1/2"	1-10KG	1-21KG	1-42KG	1-16KG	1-25KG	1-40KG
2"	1-10KG	1-21KG	1-42KG	1-16KG	1-25KG	1-40KG
2 1/2"	1-10KG	1-21KG	1-42KG	1-16KG	1-25KG	1-40KG
3"	1-10KG	1-21KG	1-42KG	1-16KG	1-25KG	1-40KG

■ (ANSI參考值: 150Psi(約10.5K)、300Psi(約21K)、400Psi(約28K)、600Psi(約42K))

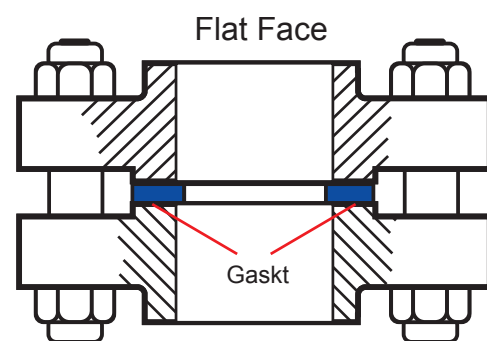
■ 法蘭材質有SUS304、SUS316可供選擇

■ 法蘭面有RF、FF可供選擇

.平法蘭(FF)



.凸面法蘭(RF)



常用墊片化學性質表

	PTFE	VITON	NYLON
耐溫	-185~150°C	-40~200°C	-30~120°C
適用壓力	5~150KG	0.5~10KG	150KG以上
適用流體	無特別限制		

分類	英文名稱	中文名稱	VITON	PTFE
有機酸	Acetic acid	乙酸	△ (30%)	OK
	Acetic acid, glacial	冰醋酸	△ (20%)	OK
	Acetic anhydride	醋酸酐	X	OK
	Citric acid	檸檬酸	OK (20%)	OK
	Acetaldehyde	乙醛	X	OK
	Acetone	丙酮	X	OK
	Methyl alcohol	甲醇	X	OK
	Aniline	苯胺	N/A	OK
	Benzaldehyde	苯甲醛	N/A	OK
	Benzene	苯	△	OK (22°C)
有機化合物	Benzyl alcohol	苯甲醇	OK	OK
	Benzyl chloride	氯化苯	OK	OK
	Corn oil	穀物油	OK	OK
	Ethanol	乙醇	△	OK
	Ethylene glycol	乙二醇(1.2)	OK	OK
	Fatty acid	脂肪酸	OK	OK
	Formaldehyde	甲醛	X	OK
	Formic acid	蟻酸	X	OK
	Hexane	己烷	OK	OK
	Lactic acid	乳酸	OK (85%)	OK
	Methanol	甲醇	X	OK
	Paraffin oil	有機溶劑	OK	OK
	Petroleum	有機溶劑	△	OK (48°C)
	Phenol	酚	OK	OK
	Propane, liq	丙烷	OK	OK
	Propanol	丙醇	OK	N/A
	Stearic acid	十八(烷)酸	△	OK
	Tannic acid	鞣酸	OK	OK
	Tartaric acid	酒石酸	△	OK
	Toluene	甲苯	△	OK
	Urea	碳醯胺(尿素)	OK (<60°C)	OK
	Ammonia	氨	X	OK
	Ammonium chloride	氯化銨	OK (Sai ammoniac)	OK
	Ammonium hydroxide	氫氧化氨	△	OK
	Ammonium nitrate	硝酸銨	△	OK
	Ammonium sulfate	硫酸銨	△	OK
無機化合物	Aqua regia	王水	△	OK (80% HCl, 20% HNO3)
	Barium chloride	氯化銨	OK	OK
	Barium hydroxide	氫氧化銨	OK	OK
	Brine	鹽水	OK	OK (48°C)
	Calcium Chloride	氯化鈣	OK	OK
	Calcium hydroxide	氫氧化鈣	OK	OK
	Carbonic acid	碳酸	OK	OK
	Chloric acid	氯酸	X	OK
	Chlorine	氯	△	OK
	Detergent	清潔劑	OK	OK
	Hydrobromic acid	氫溴酸	△ (37% @ hot)	OK(100%)
	Hydrochloric acid	氫氯酸/鹽酸	OK (70%)	OK
	Hydrofluoric acid	氫氟酸	X	OK
	Hydrogen peroxide	過氧化氫	OK (36%)	OK
			△ (90%)	
	Nitric acid	硝酸	△ (5%)	OK
			△ (40%)	
	Phosphoric acid	磷酸	OK (85%)	OK
	Potassium hydroxide	氫氧化鉀	X	OK
	Potassium nitrate	硝酸鉀	OK	OK
	Potassium sulfate	硫酸鉀	OK	OK
	Sodium carbonate	碳酸鈉	OK	OK
	Sodium hydroxide	氫氧化鈉	△ (50%)	OK(20%,50%)
	Sodium nitrate	硝酸鈉	OK	OK
			OK (40%)	
	Sulfuric acid	硫酸	△ (60% @ 100°C)	OK
			OK (95% @ 20°C)	
			△ (Fuming)	
	Sulfur dioxide	二氧化硫	△	OK

產品檢測證明書 CERTIFIED PRODUCT TEST REPORT

製造商 Manufacturer: 申錫企業股份有限公司 Hopeet Enterprise Co., Ltd

檢驗標準 Test Standards : API Std. 527 洩壓閥的閥座密封度、ISO 4126、CE

規格(Specification)

型 式 Type	SM	品 名 Name	SAFETY VALVE	序 號 Serial No.	ED0002-1
尺 寸 Size	1/2" * 1/2"	材 質 MATERIAL	Body:SS304 SEAT:SS304	閥座徑/喉徑 D/Dt	13 mm
設定壓力(±3%) Set Pre.	10 kg/cm2	背 壓 Back Pre.	0 kg/cm2	冷態試驗差壓力 C.D.T.P.	-
揚程 LIFT	1.04	復位壓力 Reseating Pre.	9.03 kg/cm2	過壓壓力 M.A.A.P	11 kg/cm2
排放量(空氣) CAP(Air)	320 kg/h	試驗日期/室溫 Date of Test/ Room Temp.	2025/06/13 /28°C	檢查人 Inspector	

本檢測書，係以 3/4 " 管路進行測試，所產生之數據 Report is tested with 3/4" pipe system

排放系數計算書 Coefficient of Discharge Report

產品檢驗：空氣(Inspection with AIR)

本安全閥本體強度設計標準符合 CE/EN ISO-4126/1

shell strength design according to CE/EN ISO-4126/1

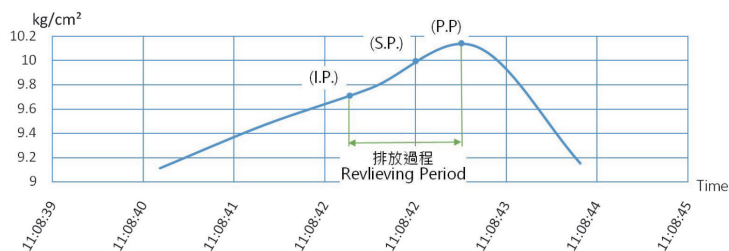
設定壓力 Set pressure	P	10	壓縮因子 Compressibility factor	Z	0.95
等熵指數 K 之函數 Function of isentropic exponent, K	C	2.703	釋放溫度 Relieving Temp.	T	26
分子量 Molar mass	M	29	排放係數 qm'/qm Discharge Coeff.	Kd	0.78
理論比排放量 $P \cdot C \cdot (M/(Z \cdot T))^{0.5}$ Theoretical Cap.	qm	50	降額定排放係數 0.9 * Kd	Kdr	0.7
實驗比排放量 Tested Cap.	qm'	39	De-rated discharge Coeff.		

安全閥計算書 Capacity Calculate Report

噴出壓力 Relieving pressure	P	10	流體 Fluid		Air
對流體溫度壓力之修正係數 Temp./Pre. correction factor	C	265	分子量 Molar mass	M	29
喉徑面積 Flow area	A	42.5	標準噴出係數 Relieving factor	K	0.777
計算公式 Formula	$0.01 \cdot A \cdot (1.1 \cdot P + 1) \cdot C \cdot K \cdot (M/T)^{0.5}$		絕對溫度 Absolute Temp.	T	313
噴降壓力 Blowdown	2~15% *符合 EN ISO 4126 CNS9969-1 7-2.1(d)		排放量 CAP.	320 kg/h	

壓力曲線圖 Pressure line chart

彈跳壓力 Popping pressure 10.12kg/cm²



洩漏量：00.0004176m³/24h
Leakage rate：0.0004176m³/24h
優於 API std527 70%
Exceeddss API527 by 70%
每年節省靜態浪費：美金\$1,234.5
Annual waste savings：USD\$1,234.5

*排放過程符合 CNS 9969-17.2.1(a)、ASME Sec VIII Div. 1 UG-126(d)、EN ISO 4126、本產品經 CGA G-4.1 標準淨油處理(Oil Free)

出廠證明:本公司上項產品，其材質符合歐盟 EN 10204 TYPE 3.1 規範，並經壓力試驗合格，特予證明。

WE CERTIFY HEREINBEFORE, THE MATERIAL OF OUR PRODUCTS HAVE BEEN PRODUCED IN ACCORDANCE WITH THE ABOVE TABLE, CERTIFIED WITH EN 10204 TYPE 3.1, AND QUALIFIED WITH THE PRESSURE TEST PROCEDURES.

每隻出廠安全閥提供符合台灣CNS-9969，對應工檢需求之測試報告，包含壓力排放曲線圖、排放數據等，市面上最詳盡之報告。

Each safety valve comes with a detailed test report compliant with Taiwan CNS-9969, including pressure discharge curves and performance data — one of the most comprehensive reports on the market.



逆止閥 CHECK VALVES



1/2"~1"

Hop-211 B型



1/2"

Hop-211 C型



1/4"~1/2"

K004

針閥 NEEDLE VALVES



1/4"

NE01



1/4"

NE02



C10

雙外牙考克

DOUBLE MALE COCK

1/8X1/8 . 1/4X1/4
3/8X3/8 . 1/8X1/4
3/8X1/4 . 1/2X1/4



C20

雙內牙考克

DOUBLE FEMALE COCK

1/8X1/8 . 1/4X1/4
3/8X3/8



C30

內外牙考克

ONE MALE ONE

1/8X1/8 . 1/4X1/4
3/8X3/8 . 1/8X1/4
3/8X1/4 . 1/2X1/4

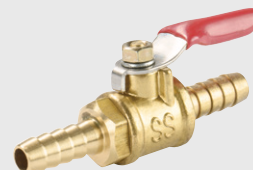


C40

插管考克

ONE HOSE ONE

1/8X5/16 Hose . 1/4X5/16 Hose
3/8X5/16 Hose . 1/2X5/16 Hose
1/8X3/8 Hose . 1/4X3/8 Hose
3/8X3/8 Hose . 1/2X3/8 Hose
1/2PX1/2 Hose



C50

雙插管考克

DOUBLE HOSE ONE

5/16HX5/16H
3/8HX3/8H

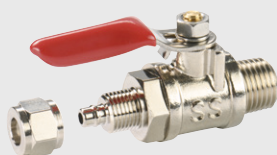


C60

雙尼龍管考克

DOUBLE NYLON PIPE COCK

1/4NX1/4N

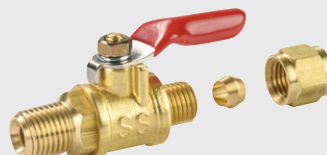


C70

尼龍管考克

NYLON PIPE COCK

1/4PX1/4N . 1/4PX3/8N
1/4PX5/16N . 1/8PX1/4N
1/2PX1/4N



C80

銅管考克

COPPER PIPE COCK

1/4X1/4S . 3/8X1/4S
1/2X1/4S . 1/4X3/8S



C90

喇叭考克

FLARE COCK

1/4HX1/4P
1/4HX3/8P
1/4HX1/4H



申錫企業股份有限公司
HOPEET ENTERPRISE CO., LTD



Add : 台中市北屯區廬子里北坑巷2~16號 NO. 2-16, PEI-KUN LANE, BUTZN LI, PEI-TUN DIST TAICHUNG, TAIWAN, R.O.C.

Tel : 886-4-22398302 · 886-4-22391480 Fax : 886-4-22398172

Http://www.hopeet.com.tw/

Mail : sd@hopeet.com.tw

