



INNOVATION 創新

HONEST 誠信

STRICT SELECTION 嚴選

PRODUCT OVERVIEW



PREMIUM BALL VALVE MANUFACTURING / MADE IN TAIWAN

緯凡金屬三十年的創新

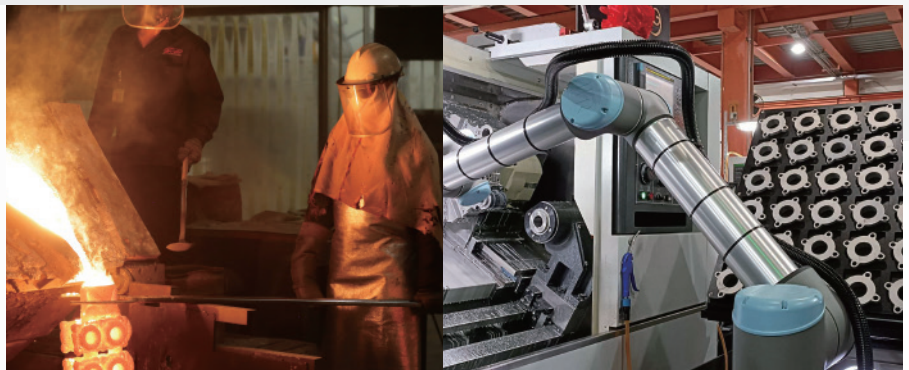
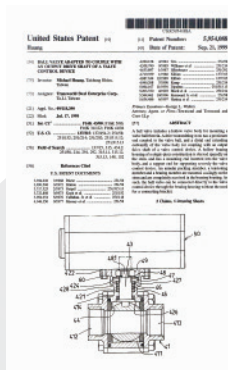
TRANSWORLD STEEL

Three Decades of Innovation



自 1992 年創立以來，緯凡金屬股份有限公司 (TAWD) 深耕高品質球閥製造已逾 30 年，產品行銷至全球 30 多個國家，廣泛應用於醫藥、食品與飲料、紙漿與造紙、化學工業、石油與天然氣及電力等產業。我們的服務涵蓋從設計到製造的全方位流程，提供客戶完整的一站式解決方案，確保品質與效率並行。

1999 年，創辦人黃世堯首創直接裝球閥，並於美國、德國及中國取得專利，成功奠定公司在國際市場的領導地位。秉持持續創新的精神，緯凡金屬已累積約 30 項專利，並持續拓展研發能量，致力於開發更多創新技術，為全球客戶帶來更可靠、更具價值的解決方案。



為了回應不斷成長的市場需求，緯凡金屬於 2008 年在越南設立鑄造廠，此一決策不僅強化了公司的製造能力，也為企業創造出有別於競爭對手的獨特優勢。透過上下游流程的垂直整合，緯凡能夠靈活因應市場變化，同時確保效率與品質的穩定控制。

順應工業 4.0 的發展趨勢，公司積極投資於工業物聯網 (IIoT) 專案，例如導入機器人手臂與智慧視覺監控系統。2010 年，第二座廠區正式成立，並配置了自動化加工產線，進一步提升生產效能與精度。

此外，緯凡建置了先進的閥門實驗室，配備多樣化測試設備，並設立經認證的 CLASS-10K 無塵室，專門用於高階球閥的潔淨製程。同時，公司導入 CLASS-100 等級的真空包裝環境，確保產品在交付前維持最高的潔淨與品質標準。

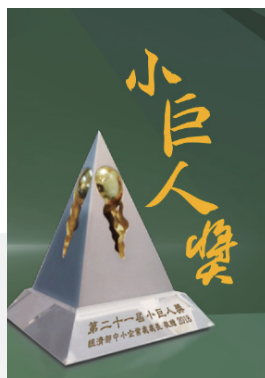
緯凡對卓越品質的承諾

Transworld's Commitment to Excellence

緯凡金屬擁有多項國際級專業認證，包括 ISO 9001、API Q1/6D、PED 2014/68/EU Module H、EN 10204-3.1、API 607、ATEX、REACH、ROHS 等，全面展現公司在品質與安全上的高度承諾。

同時，緯凡積極推動永續經營，導入綠能應用，並取得 ISO 14001 與 ISO 14064-1 認證，成為台灣閥門產業邁向永續發展的先驅。

在成就方面，緯凡榮獲台灣經濟部「小巨人獎」及國家創新創業協會「創業楷模獎」等多項殊榮，充分展現了企業的創新實力與市場信賴度，也展現出緯凡是客戶可信賴、可長期合作的夥伴。



一片式球阀 One-Piece Ball Valve

E301-10

Size : NPS 1/4 to 2 (DN 8 to 50)
 Rating : WOG 800
 Bore : Reduced Bore
 Body & Caps (ASTM) : CF8M, WCB
 Body & Caps (EN) : 1.4408, 1.0619
 Seats : PTFE, RTFE, STFE
 Handle Type : Flat, Butterfly, Oval
 V-Port Ball Option : N/A

CE



E301-30

Size : NPS 1/4 to 1 (DN 8 to 25)
 Rating : WOG 800
 Bore : Reduced Bore
 Body & Caps (ASTM) : CF8M
 Body & Caps (EN) : 1.4408
 Seats : PTFE, RTFE, STFE
 Handle : Flat
 V-Port Ball Option : N/A

CE



二片式球阀 Two-Piece Ball Valve

R301

Size : NPS 1/4 to 4 (DN 8 to 100)
 Rating : WOG 1000
 Bore : Full / Reduced Bore
 Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3, WCB,
 Titanium Alloy (Gr. C-2)
 Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309, 1.0619
 Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE
 Handle : Flat, Butterfly, Oval, Economical Stem Extension
 V-Port Ball Option : N/A

CE

SIL 3 ATEX IIB / IIC



R502

Size : NPS 1/4 to 3 (DN 8 to 80)
 Rating : WOG 1000
 Bore : Full Bore
 Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3
 Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309
 Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE
 Handle : Flat, Oval, Cast, SRS, Economical Stem Extension
 V-Port Ball Option : N/A
 With Anti-static Device Option : Yes

CE

SIL 3 ATEX IIB / IIC

DIRECT MOUNT PAD



R701

Size : NPS 1/4 to 2 (DN 8 to 50)
 Rating : WOG 800, 1000
 Bore : Full Bore
 Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3, WCB
 Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309, 1.0619
 Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE
 Handle : Flat, Economical Stem Extension
 V-Port Ball Option : N/A
 With Anti-static Device Option : Yes

CE

ATEX IIB / IIC

SIL 3 API 607



三片式球閥 Three-Piece Ball Valve

S400

Size : NPS 1/4 to 4 (DN 8 to 100)

Rating : WOG 1000, 1500, 2000

Bore : Full / Reduced Bore

Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3, WCB, CN7M, CD3MN, CE3MN, CW12MW, 904L, LCC, Titanium Alloy (Gr. C-2)

Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309, 1.0619, 1.4470

Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE, PEEK, Delrin, UHMWPE, PCTFE

Handle Type : Flat, Oval, Cast, T-Bar, SRS,

Economical Stem Extension

V-Port Ball Option : Yes

With Anti-static Device Option : Yes

API 607 ATEX IIB / IIC
DIRECT MOUNT PAD CE
BIGGER ISO TOP SIL 3



S600

Size : NPS 1/4 to 4 (DN 8 to 100)

Rating : WOG 1000, 1500, 2000

Bore : Full / Reduced Bore

Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3, WCB, CN7M, CD3MN, CE3MN, CW12MW, 904L, LCC, Titanium Alloy (Gr. C-2)

Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309, 1.0619, 1.4470

Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE, PEEK, Delrin, UHMWPE, PCTFE

Handle : Flat, Oval, Cast, T-Bar, SRS, Economical Stem Extension

V-Port Ball Option : Yes

With Anti-static Device Option : Yes

Reduced Port Version : S603

Firesafe Version : S60X-XF

Sanitary Version : S604

Diverter Version : S605 (T, L)

CE API 607
SIL 3 ATEX IIB / IIC
DIRECT MOUNT PAD



S701

Size : NPS 1/4 to 4 (DN 8 to 100)

Rating : WOG 800, 1000

Bore : Full Bore

Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3, WCB

Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309, 1.0619

Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE

Handle : Flat, Oval, Economical Stem Extension

V-Port Ball Option : Yes

CE
SIL 3 ATEX IIB / IIC



S900

Size : NPS 1/4 to 4 (DN 8 to 100)

Rating : WOG 800, 1000

Bore : Full Bore

Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3, WCB

Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309, 1.0619

Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE

Handle : Flat, Oval, Cast, T-Bar, SRS,

Economical Stem Extension

V-Port Ball Option : Yes

With Anti-static Device Option : Yes

CE
SIL 3 ATEX IIB / IIC
DIRECT MOUNT PAD



S300

Size : NPS 1/4 to 2 (DN 8 to 50)

Rating : WOG 1500, 2000

Bore : Full / Reduced Bore

Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3, WCB, CN7M, CD3MN, CE3MN, CW12MW, 904L, LCC, Titanium Alloy (Gr. C-2)

Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309, 1.0619, 1.4470

Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE, PEEK, Delrin, UHMWPE, PCTFE

Handle : Flat, Oval, Cast, T-Bar,

Economical Stem Extension

V-Port Ball Option : Yes

With Anti-static Device Option : Yes

CE ATEX IIB / IIC
SIL 3 API 607



S501

Size : NPS 1/4 to 4 (DN 8 to 100)

Rating : WOG 800, 1000

Bore : Full Bore

Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3, WCB

Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309, 1.0619

Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE

Handle : Flat, Butterfly, Oval, Economical Stem Extension

V-Port Ball Option : Yes

CE ATEX IIB / IIC



三片式球閥 Three-Piece Ball Valve

S900

Loose Flange

Size : NPS 1/4 to 4 (DN 8 to 100)

Rating : WOG 800, 1000

Bore : Full Bore

Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3, WCB

Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309, 1.0619

Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE

Handle : Flat, Oval, Cast, T-Bar, SRS,

Economical Stem Extension

V-Port Ball Option : Yes

With Anti-static Device Option : Yes

CE
SIL 3 ATEX IIB / IIC
DIRECT MOUNT PAD



T801

Double Block and Bleed

Size : NPS 1/4 to 2-1/2 (DN 8 to 65)

Rating : WOG 1000, 1500, 2000

Bore : Full Bore

Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3, WCB

Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309, 1.0619

Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE, PEEK,

Delrin, UHMWPE, PCTFE

Handle : Flat

V-Port Ball Option : N/A

With Anti-static Device Option : Yes

CE SIL 3



法蘭球閥 Flange End Ball Valve

F301

Size : NPS 1/2 to 6 (DN 15 to 150)

Rating : CLASS 150 / PN16, PN40

Bore : Full Bore

Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3, WCB

Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309, 1.0619

Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE

Handle : Flat, Economical Stem Extension

V-Port Ball Option : Yes

With Anti-static Device Option : Yes

CE API 607
SIL 3 ATEX IIB / IIC
DIRECT MOUNT PAD



F303

Size : NPS 1/2 to 6 (DN 15 to 150)

Rating : CLASS 150, CLASS 300

Bore : Reduced Bore

Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3, WCB, CN7M,

CD3MN, CE3MN, CW12MW, 904L, LCC, Titanium Alloy (Gr. C-2)

Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309, 1.0619, 1.4470

Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE

Handle : Flat, T-Bar, Economical Stem Extension

V-Port Ball Option : Yes

With Anti-static Device Option : Yes

CE API 607
SIL 3 ATEX IIB / IIC
DIRECT MOUNT PAD



F501

Size : NPS 1/2 to 4 (DN 15 to 100)

Rating : CLASS 150 / PN16, PN40

Bore : Full Bore

Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3, WCB, CN7M,

CD3MN, CE3MN, CW12MW, 904L, LCC, Titanium Alloy (Gr. C-2)

Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309, 1.0619, 1.4470

Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE, PEEK, Delrin,

UHMWPE, PCTFE

Handle : Flat, Oval, T-Bar,

Economical Stem Extension

V-Port Ball Option : Yes

With Anti-static Device Option : Yes

CE API 607
SIL 3 ATEX IIB / IIC



F502

Size : NPS 1/2 to 12 (DN 15 to 300)

Rating(ANSI) : CLASS 150, 300, 600

Rating(DIN) : PN16, 40

Pressure(JIS) : 10K

Bore : Full Bore

Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3, WCB, CN7M, CD3MN,

CE3MN, CW12MW, 904L, LCC, Titanium Alloy (Gr. C-2)

Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309, 1.0619, 1.4470

Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE, PEEK,

Delrin, UHMWPE, PCTFE

Handle : Flat, Oval, T-Bar,

Economical Stem Extension

V-Port Ball Option : Yes

With Anti-static Device Option : Yes

CE API 607
SIL 3 ATEX IIB / IIC
DIRECT MOUNT PAD



衛生球閥 Sanitary Ball Valve

S304

Size : NPS 1/2 to 2 (DN 15 to 50)
 Rating : WOG 1000
 Bore : Full Bore (True Bore)
 End Connections : Clamp / Tube End
 Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3
 Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309
 Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE
 Handle : Flat, Oval,
 Economical Stem Extension
 V-Port Ball Option : N/A
 With Anti-static Device Option : Yes

FDA
 CE EC 1935
 SIL 3 ATEX IIB / IIC



S504

Size : NPS 1/2 to 4 (DN 15 to 100)
 Rating : WOG 800, 1000
 Bore : Full Bore (True Bore)
 End Connections : Clamp / Tube End
 Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3
 Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309
 Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE
 Handle : Flat, Butterfly, Oval,
 Economical Stem Extension
 V-Port Ball Option : Yes

CE EC 1935
 FDA ATEX IIB / IIC



S604

Size : NPS 1/2 to 4 (DN 15 to 50)
 Rating : WOG 800, 1000
 Bore : Full Bore (True Bore)
 End Connections : Clamp / Tube End
 Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3
 Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309
 Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE
 Handle : Flat, Oval, Cast, T-Bar, SRS,
 Economical Stem Extension
 V-Port Ball Option : N/A
 With Anti-static Device Option : Yes

FDA
 CE EC 1935
 SIL 3 ATEX IIB / IIC
 DIRECT MOUNT PAD



S704

Size : NPS 1/2 to 4 (DN 15 to 100)
 Rating : WOG 800, 1000
 Bore : Full Bore (True Bore)
 End Connections : Clamp / Tube End
 Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3
 Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309
 Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE
 Handle : Flat, Oval, Economical Stem Extension
 V-Port Ball Option : Yes
 With Anti-static Device Option : Yes

FDA
 CE EC 1935
 SIL 3 ATEX IIB / IIC



S904

Size : NPS 1/2 to 4 (DN 15 to 100)
 Rating : WOG 800, 1000
 Bore : Full Bore (True Bore)
 End Connections : Clamp / Tube End
 Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3
 Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309
 Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE
 Handle : Flat, Oval, Cast, T-Bar, SRS,
 Economical Stem Extension
 V-Port Ball Option : Yes
 With Anti-static Device Option : Yes

FDA
 CE EC 1935
 SIL 3 ATEX IIB / IIC
 DIRECT MOUNT PAD



M304

Size : NPS 1/2 to 4 (DN 15 to 100)
 Rating : WOG 300, 600, 800, 1000
 Bore : Full Bore (True Bore)
 End Connections : Clamp / Tube End
 Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3
 Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309
 Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE
 Handle : Flat, T-Bar, Economical Stem Extension
 V-Port Ball Option : N/A
 With Anti-static Device Option : Yes

FDA
 CE EC 1935
 SIL 3 ATEX IIB / IIC
 DIRECT MOUNT PAD



多通球閥 Multi-port Ball Valve

M302

Multi-port 3-4-5 way Ball Valve

Size : NPS 1/4 to 4 (DN 8 to 100)

Rating : WOG 300, 600, 800, 1000

Bore : Full Bore

Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3, WCB

Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309, 1.0619

Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE

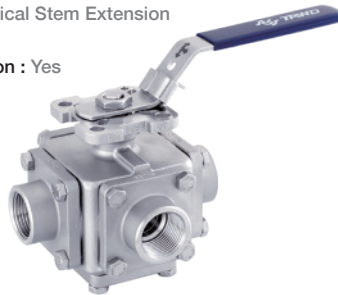
Handle : Flat, T-Bar, Economical Stem Extension

V-Port Ball Option : N/A

With Anti-static Device Option : Yes

Option : NACE MR-0175

CE
SIL 3 ATEX IIB / IIC
DIRECT MOUNT PAD



M602

Size : NPS 1-1/2 to 6 (DN 40 to 150)

Rating : CLASS 150, CLASS 300

Bore : Full Bore

Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3, WCB, CN7M, CD3MN, CE3MN, CW12MW, 904L, LCC, Titanium Alloy (Gr. C-2)

Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309, 1.0619, 1.4470

Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE

Handle : Cast, T-Bar, Economical Stem Extension

V-Port Ball Option : N/A

With Anti-static Device Option : Yes

CE
SIL 3 ATEX IIB / IIC
DIRECT MOUNT PAD



M202

Size : NPS 1/4 to 2 (DN 8 to 50)

Rating : WOG 1000

Bore : Full / Reduced Bore

Body & Caps (ASTM) : CF8M, CF3M, CF8, CF3, WCB

Body & Caps (EN) : 1.4408, 1.4409, 1.4308, 1.4309, 1.0619

Seats : PTFE, RTFE, CTFE, TFM1600, MG1241, STFE

Handle : Flat, Economical Stem Extension

V-Port Ball Option : N/A

With Anti-static Device Option : Yes

CE
SIL 3 ATEX IIB / IIC
DIRECT MOUNT PAD



低溫球閥 Cryogenic Ball Valve

S320

Size : NPS 1/4 to 2 (DN 8 to 50)

Rating : WOG 1000

Bore : Full / Reduced Bore

Body & Caps (ASTM) : CF8M, CF3M

Body & Caps (EN) : 1.4408, 1.4409

Seats : PCTFE

Handle : Cast

V-Port Ball Option : Yes

With Anti-static Device Option : Yes

CE
SIL 3 ATEX IIB / IIC
DIRECT MOUNT PAD



逆止閥 Check Valve

T701

Size : NPS 3/8 to 4 (DN 10 to 100)

Rating : WOG 800,1000

Bore : Full Bore

Body & Caps (ASTM) : CF8M

Body & Caps (EN) : 1.4408

Handle : N/A

V-Port Ball Option : N/A

CE



球閥配件類 Valve Accessories

Handle Options



Oval Handle
Material : 304, 316



Flat (with / without Spring Return Lock)
Material : 304, 316



Economical Stem Extension



Spring Return Safety (SRS) Handle
Option : Fail Open / Fail Close assembly



T-Bar Handle
Material : 304, 316

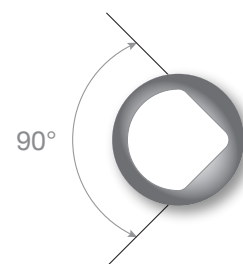
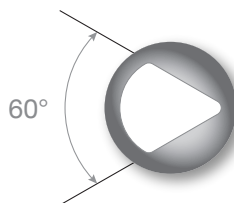
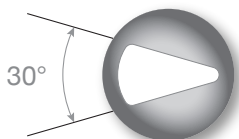


S.S Investment Casting Handle
Material : CF8, CF8M



Butterfly Handle

V-Port Ball



Accessories



TSM



TSM with Handle



Actuator

數位追溯護照™ Digital Traceability Passport™ (DTP)

數位追溯護照 (DTP) 由 緯凡金屬獨家開發，是一項創新的數位工具，專為提升供應鏈管理透明度與可追溯性而設計，實現 100% 全面追蹤，確保產品品質與合規性。

DTP 核心功能

獨立序列號 + QR 碼：精準追蹤每件產品，確保唯一識別

材料證書：提供完整的材料來源與成分證明，確保品質可信度

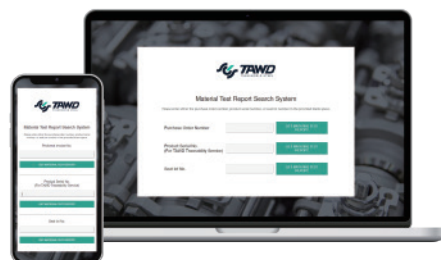
生產記錄：詳實記錄製造流程，確保全程可追溯

扭矩數據：涵蓋閥體螺栓、閥桿螺母及組裝數據，確保產品耐用性與一致性

完整測試報告：為每顆閥門提供獨立的測試結果，確保品質達到標準。

每一個產品皆配有獨一無二的序列號，實現 1 對 1 對應，確保產品身份清晰可查。

此外，DTP 無縫支援 3.1 與 2.2 材料測試報告，推動製造業的數位轉型，提升運營效率、穩定性與卓越品質。同時，這項技術確保供應鏈合規，並賦能企業快速識別並解決潛在問題。



DTP帶來的關鍵價值



全面可追溯性

每顆閥門都擁有專屬數位身份，確保供應鏈透明度。發生問題時，可快速追溯至特定產品與供應商，強化責任機制，確保供應鏈穩定。



透明度與可靠性

DTP 提供安全且詳盡的材料成分與生產數據，確保供應鏈資訊公開透明，強化所有利害關係人的信任。



數位化流程優化

DTP 無縫整合至企業的數位工作流程，簡化材料管理、品質檢測與供應鏈協作，提升運營效率。



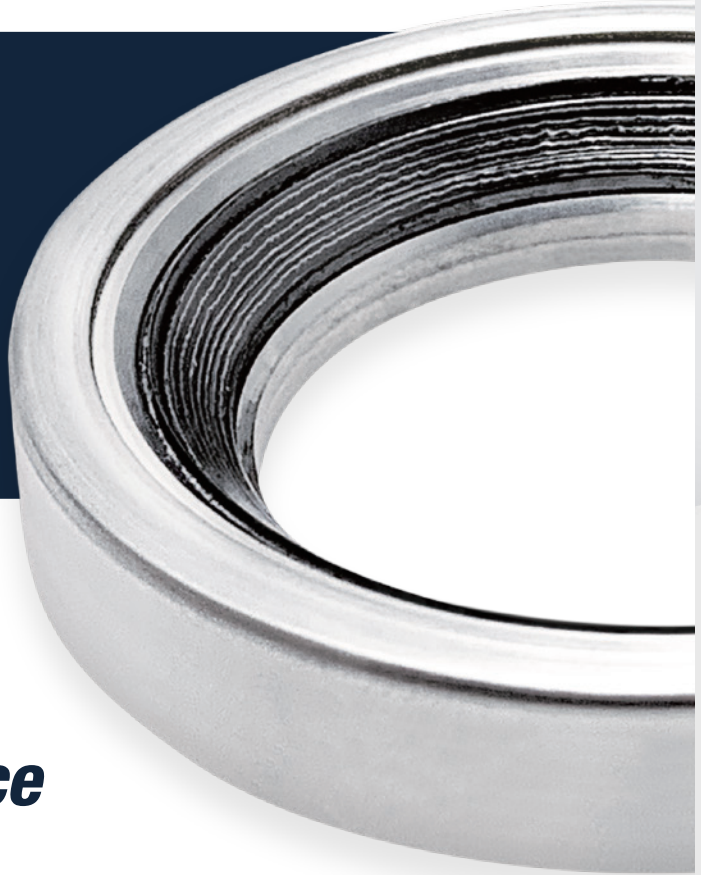
確保合規性

DTP 符合業界標準，確保所有材料皆符合法規與品質標準，提升產品合規性與市場競爭力。

球墊材質 Available Seats

PTFE	100% Virgin Polytetrafluoroethylene
RTFE	Reinforced Teflon : 85% PTFE, 15% Glass Fiber
50/50 STFE	50% 316 SST Powder, 50% PTFE
TFM 1600	TFM Modified PTFE 1600
CTFE	25% Carbon Graphite, 75% PTFE
MG1241	5% Graphite, 20% Glass Fiber, 75% PTFE
PCTFE	Polychlorotrifluoroethylene
PEEK	Polyether Ether Ketone
UHMWPE	Ultra High Molecular Weight Polyethylene
Delrin	DuPont Polyoxymethylene

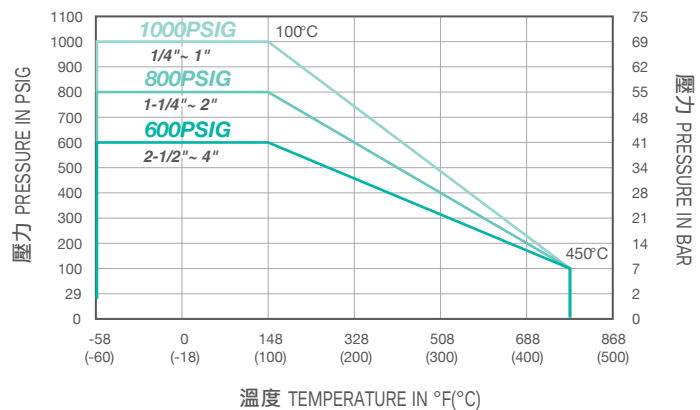
高溫石墨 複合金屬 球墊



High Temperatures
High Performance



壓力vs.溫度曲線圖 Pressure vs. Temperature Chart



SS316+高溫石墨金屬球墊
SS 316 + Graphite Seat

單向閥使用/適用於低磨耗環境
Unidirectional ball valve / Recommended for low abrasion application

規格

閥體材質 Body material	Standard in WCB, CF8M (Special material is available according to application)
閥門尺寸 Nominal size	1/4" to 4"
閥蓋形式 End connections	Thread / Socket Weld / Butt Weld / Flanged
溫度範圍 Temperature range	-60 °C to 450 °C
壓力測試 Body pressure testing	EN 12266-1 / API 598
洩漏等級 Seat leakage testing	EN 12266-1 Rate A



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Established in 1992
TAWD has dedicated over 30 years to
manufacturing premium ball valves