

INNOVATION
HONEST
STRICT SELECTION

PRODUCT OVERVIEW



MADE IN TAIWAN

Transworld Steel Enterprise

Three Decades of Innovation

Since its establishment in 1992, Transworld Steel Enterprise Co., Ltd. (TAWD) has dedicated over 30 years to manufacturing premium ball valves, supplying to over 30 countries in sectors like pharmaceuticals, food and beverage, pulp and paper, chemistry, oil and natural gas, and electricity, etc.

In 1999, founder Michael Huang introduced the innovative direct mounting ball valve, securing patents in the USA, Germany, and China, which solidified the company's presence in the international market. Acknowledging the need for persistent innovation in the dynamic valve industry, Transworld has a notable portfolio with around 30 patents and is on track to obtain more.



In response to market demands, an investment casting foundry was established in Vietnam in 2008. This strategic decision enhances the manufacturing capabilities and provides a unique advantage over competitors. With an integrated approach connecting upstream and downstream processes, the company ensures efficiency and quality control, and adaptability to market shifts.

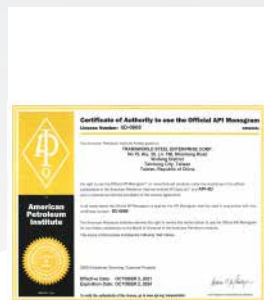
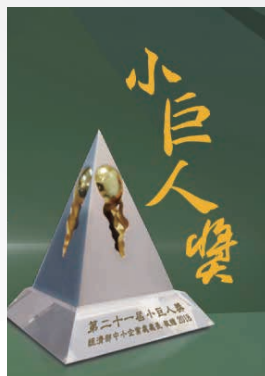
Adhering to Industry 4.0 trends, significant investments have been made in IIoT initiatives, such as the integration of robotic arms and intelligent visual monitors. Consequently, the second factory, established in 2010, features an automated machining line. Furthermore, the advanced valve lab houses a wide range of testing equipment, and a certified clean room with a classification of 10,000 and 100 for vacuum packing is also part of the infrastructure.



Transworld's Commitment to Excellence

Transworld holds key certifications, including ISO9001, API Q1/6D, PED 2014/68/EU Module H、EN10204-3.1、API 607、ATEX、REACH、ROHS ...etc. certificate. Moreover, commitment to Sustainability values is evident by the integration of solar panels and by securing certifications like ISO 14001 and ISO 14064-1, Transworld stand as trailblazers in Taiwan's valve industry.

In recognition of the efforts invested, Transworld has received prestigious awards from Taiwanese authorities, including the "Rising Star Award" from the Ministry of Economic Affairs and the "Model of Entrepreneurs" from the National Innovation and Entrepreneurship Association. These esteemed awards, along with the consistent track record, further underscore Transworld's position as a trusted and esteemed collaborator in the industry.



One-Piece Ball Valve

E301-10

NPS 1/4 to 2 (DN 8 to 50)
WOG 800
Full Bore
CF8M / WCB



CE

E301-30

NPS 1/4 to 1 (DN 8 to 25)
WOG 800
Full Bore
CF8M



CE

Two-Piece Ball Valve

R301

NPS 1/4 to 4 (DN 8 to 100)
WOG 1000
Full Bore
CF8M / WCB



CE

SIL 3

ATEX IIB / IIC

R502

NPS 1/4 to 3 (DN 8 to 80)
WOG 1000
Full Bore
CF8M / WCB



CE

SIL 3

ATEX IIB / IIC

DIRECT MOUNT PAD

R701

NPS 1/4 to 2 (DN 8 to 50)
WOG 800, 1000
Full Bore
CF8M / WCB



CE

API 607

SIL 3

ATEX IIB / IIC

Three-Piece Ball Valve

S400

NPS 1/4 to 4 (DN 8 to 100)
WOG 1500, 2000
Full Bore
CF8M / WCB
/ other ALLOY

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



S600

NPS 1/4 to 4 (DN 8 to 100)
WOG 1000, 2000
Full / Reduced Bore
CF8M / WCB
/ other ALLOY

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



S701

NPS 1/4 to 4 (DN 8 to 100)
WOG 800, 1000
Full Bore
CF8M / WCB

CE
SIL 3 ATEX IIB / IIC



S900

NPS 1/4 to 4 (DN 8 to 100)
WOG 800, 1000
Full Bore
CF8M / WCB

CE
SIL 3 ATEX IIB / IIC
DIRECT MOUNT PAD



S300

NPS 1/4 to 2 (DN 8 to 50)
WOG 1500, 2000
Full / Reduced Bore
CF8M / WCB / other ALLOY

CE API 607
SIL 3 ATEX IIB / IIC



S501

NPS 1/4 to 4 (DN 8 to 100)
WOG 800, 1000
Full Bore
CF8M / WCB

CE ATEX IIB / IIC



Three-Piece Ball Valve

S900

Loose Flange

NPS 1/4 to 4 (DN 8 to 100)
WOG 800, 1000
Full Bore
CF8M / WCB

CE
SIL 3 ATEX IIB / IIC
DIRECT MOUNT PAD



T801

Duble block and bleed

NPS 1/4 to 2-1/2 (DN 8 to 65)
WOG 1000, 1500, 2000
Full Bore
CF8M / WCB

CE
SIL 3



Flange End Ball Valve

F301

NPS 1/2 to 6 (DN 15 to 150)
CLASS 150 / PN16, PN40
Full Bore
CF8M / WCB

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



F303

NPS 1/2 to 6 (DN 15 to 150)
CLASS 150, CLASS 300
Reduced Bore
CF8M / WCB
/ other ALLOY

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



F501

NPS 1/2 to 4 (DN 15 to 100)
CLASS 150 / PN16, PN40
Full Bore
CF8M / WCB
/ other ALLOY

CE
API 607
SIL 3 ATEX IIB / IIC



F502

NPS 1/2 to 12 (DN 15 to 300)
CLASS 100, 300, 600
PN16, PN40, PN10K
Full Bore
CF8M / WCB
/ other ALLOY

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



Sanitary Ball Valve

S304

NPS 1/2 to 2 (DN 15 to 50)
WOG 1000
Full Bore
Clamp / Tube End
CF3M / CF8M

CE
SIL 3 ATEX IIB / IIC
FDA EC 1935



S504

NPS 1/2 to 4 (DN 15 to 100)
WOG 800, 1000
Full Bore
Clamp / Tube End
CF3M / CF8M

CE
SIL 3 ATEX IIB / IIC
FDA EC 1935



S604

NPS 1/2 to 4 (DN 15 to 50)
WOG 800, 1000
Full Bore
Clamp / Tube End
CF3M / CF8M

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



S704

NPS 1/2 to 4 (DN 15 to 100)
WOG 800, 1000
Full Bore
Clamp / Tube End
CF3M / CF8M

CE
SIL 3 ATEX IIB / IIC
FDA EC 1935



S904

NPS 1/2 to 4 (DN 15 to 100)
WOG 800, 1000
Full Bore
Clamp / Tube End
CF3M / CF8M

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



M304

NPS 1/4 to 4 (DN 15 to 100)
WOG 300, 1000
Full Bore
Clamp / Tube End
CF3M / CF8M

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



Multi-port Ball Valve

M302

NPS 1/4 to 4 (DN 8 to 100)
WOG 300, 1000
Full Bore
CF8M / WCB

CE

SIL 3 ATEX IIB / IIC

DIRECT MOUNT PAD



M602

NPS 1/2 to 6 (DN 40 to 150)
WOG 1500, 2000
Full Bore
CF8M / WCB / other ALLOY

CE

SIL 3 ATEX IIB / IIC

DIRECT MOUNT PAD



M202

NPS 1/4 to 2 (DN 8 to 50)
WOG 1000
Full Bore
CF8M

CE

SIL 3 ATEX IIB / IIC

DIRECT MOUNT PAD



Cryogenic Valve

S320

NPS 1/4 to 2 (DN 8 to 50)
WOG 1000
Full / Reduced Bore
CF8M

CE

SIL 3 ATEX IIB / IIC

DIRECT MOUNT PAD



Check Valve

T701

NPS 3/8 to 4 (DN 10 to 100)
WOG 800, 1000
N/A
CF8M / WCB

CE



Valve Accessories

Handle options



Oval handle



Spring return sliding lock



Economical stem extension

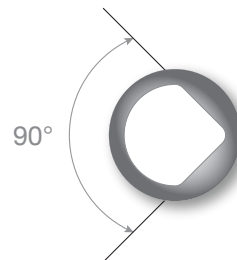
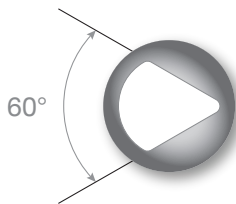
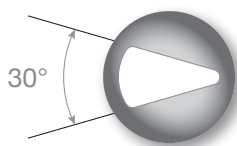


T-Handle



S.S. investment casting handle

V Port ball



Accessories



TSM



TSM with handle



Actuator

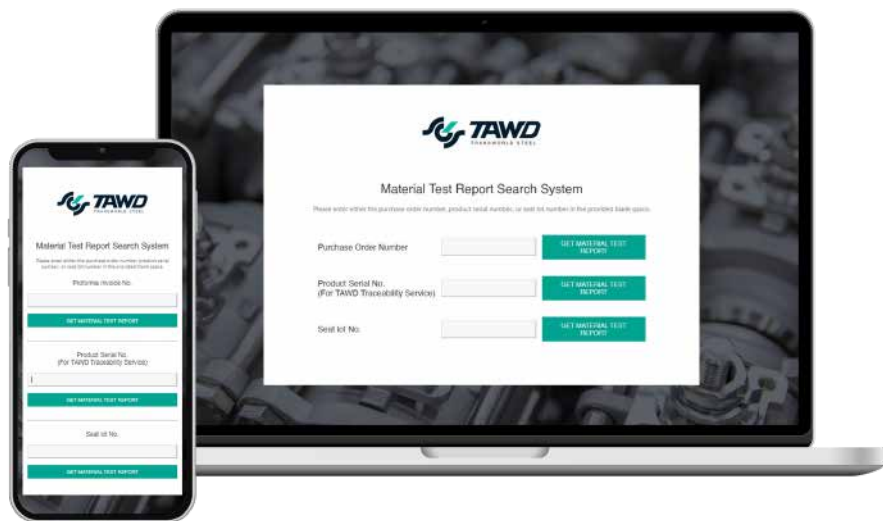
3.1 Material Test Report Search System



Rapid Traceability System

Exclusive development - enabling you to quickly and accurately obtain the material test report (MTR) you need.

Within our products, we offer three query methods: order inquiry, valve ID number inquiry, and component serial number inquiry, enabling you to swiftly and accurately download the necessary material test report (MTR) and related data.



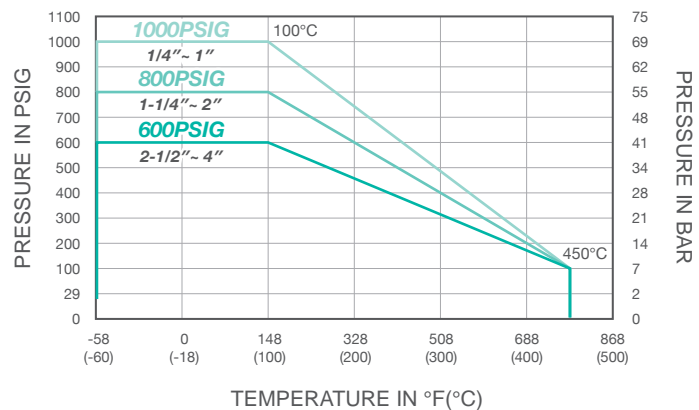
Available Seats

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

Hard Graphite Seat

High Temperatures
High Performance

Pressure vs. Temperature Chart



SS 316 + Graphite Seat

Unidirectional ball valve / Recommended for low abrasion application

Specification	
Body material	Standard in WCB, CF8M (Special material is available according to application)
Nominal size	1/4" to 4"
End connections	Thread / Socket Weld / Butt Weld / Flanged
Temperature range	-60 °C to 450 °C
Body pressure testing	EN 12266-1 / API 598
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