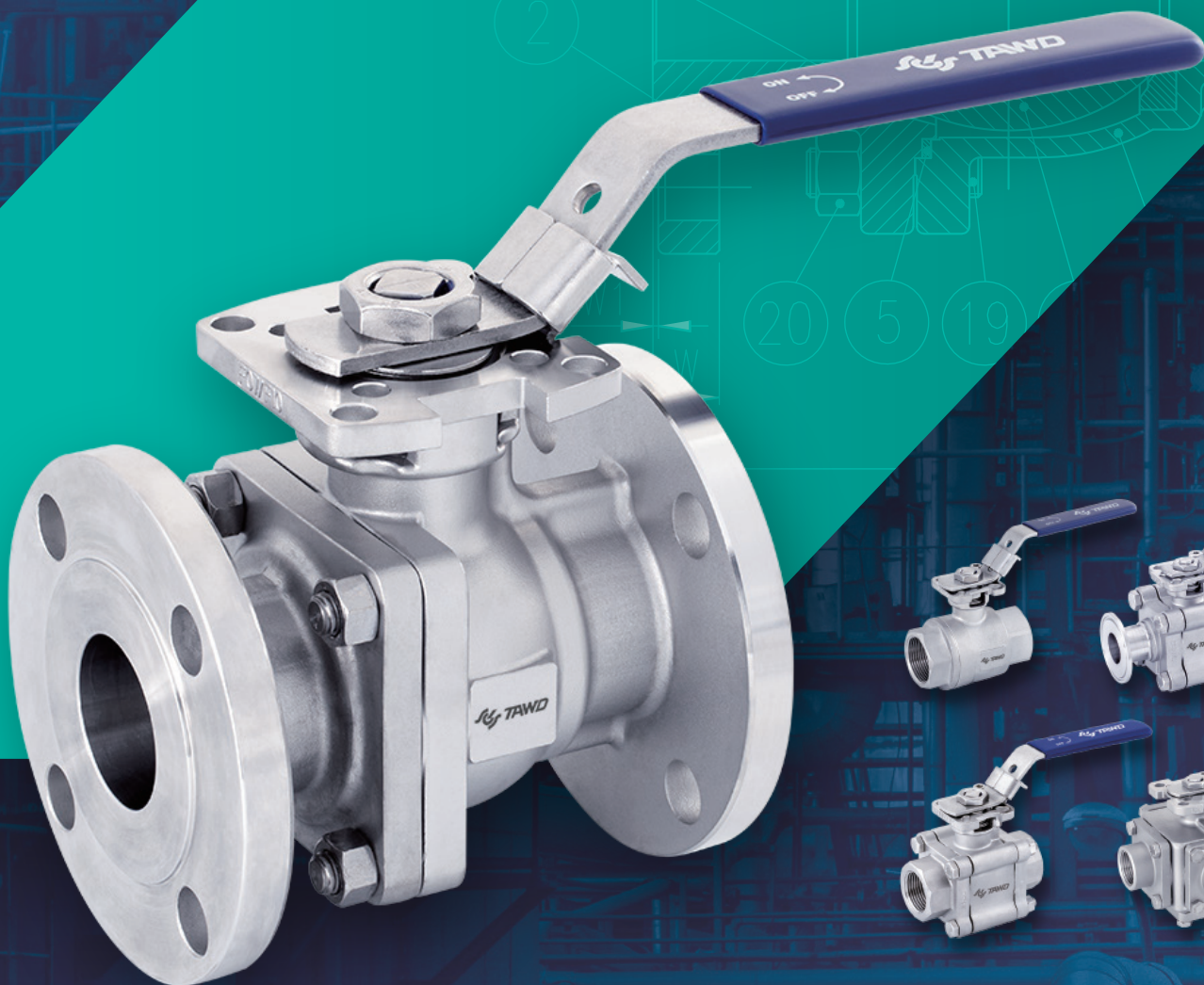




THREE DECADES OF INNOVATION

# PRODUCT OVERVIEW



PREMIUM BALL VALVE MANUFACTURING / MADE IN TAIWAN

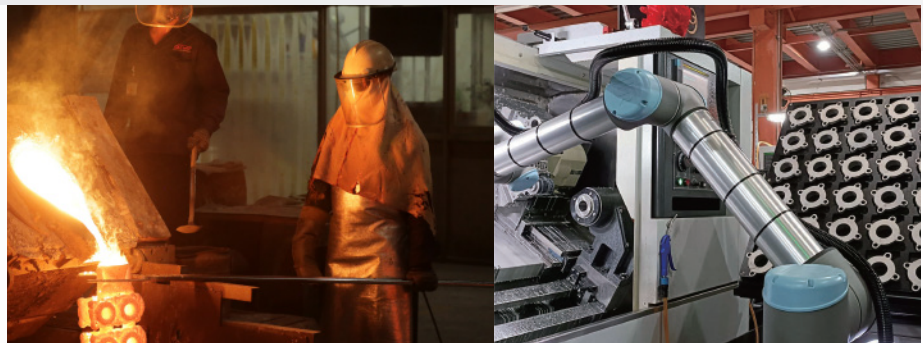
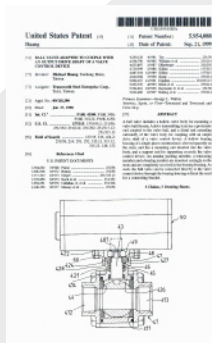
# **Transworld Steel Enterprise**

## **Three Decades of Innovation**

Since its establishment in 1992, Transworld Steel Enterprise Co., Ltd. (TAWD) has dedicated more than three decades to the manufacturing of high-quality ball valves. Our products are exported to over 30 countries worldwide and serve a wide range of industries, including semiconductor equipment, data centers, aerospace, pharmaceuticals, food and beverage, pulp and paper, chemical processing, oil and gas, and power generation.

Managing the entire production process—from design and engineering to manufacturing and final delivery—we provide our customers with comprehensive, reliable, and efficient one-stop solutions tailored to their operational needs.

In 1999, founder Michael Huang pioneered the innovative direct-mounting ball valve, earning patents in the United States, Germany, and China. This breakthrough reinforced TAWD's position in the international market. Recognizing the need for continuous innovation in the dynamic valve industry, TAWD has built a strong portfolio of nearly 30 patents, with more in progress.



In response to growing market demands, TAWD established an investment casting foundry in Vietnam in 2008. This strategic move not only strengthened the company's manufacturing capabilities but also created a distinct competitive advantage. By integrating both upstream and downstream processes, TAWD ensures operational efficiency, stringent quality control, and the flexibility to adapt to evolving market conditions.

Embracing the Industry 4.0 era, the company has made substantial investments in Industrial Internet of Things (IIoT) initiatives, including the deployment of robotic arms and intelligent vision monitoring systems. In line with this, the second manufacturing facility, founded in 2010, is equipped with a fully automated machining line, significantly enhancing production precision and capacity.

Additionally, TAWD operates an advanced valve laboratory equipped with comprehensive testing instruments, alongside a certified clean room classified at Class 10,000, dedicated to high quality sanitary valve manufacturing. To ensure product integrity, the facility also features Class 100 vacuum packing, safeguarding cleanliness and quality prior to delivery.

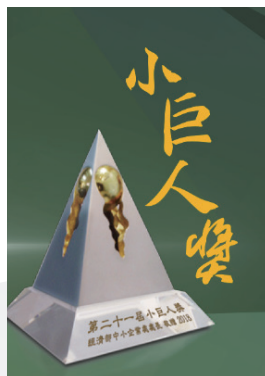




# Transworld's Commitment to Excellence

Demonstrating its strong commitment to sustainability, Transworld Steel has integrated solar energy into its operations and attained ISO 14001, ISO 14064-1, and ISO 14067 certifications, establishing itself as a trailblazer in driving sustainable transformation within Taiwan's valve industry.

In recognition of these efforts, Transworld has received prestigious awards, such as the "Rising Star Award" from the Ministry of Economic Affairs and the "Model of Entrepreneurs Award" from the National Innovation and Entrepreneurship Association. These awards, together with the company's consistent track record, further reinforce Transworld's reputation as a trusted and respected partner in the industry.



## 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



## 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



## 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 : 30°, 60°, 90°

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 : 30°, 60°, 90°

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 : 30°, 60°, 90°

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 : 30°, 60°, 90°

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 : 30°, 60°, 90°

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, Extended Handle

V-Port Ball Option : 30°, 60°, 90°

CE

ATEX IIB / IIC



## 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 : 30°, 60°, 90°

With Anti-static Device Option : Yes

CE  
SIL 3 ATEX II B / 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



## 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 : 30°, 60°, 90°

With Anti-static Device Option : Yes

CE API 607  
SIL 3 ATEX II B / 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 : 30°, 60°, 90°

With Anti-static Device Option : Yes

CE API 607  
SIL 3 ATEX II B / 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 : 30°, 60°, 90°

With Anti-static Device Option : Yes

CE API 607  
SIL 3 ATEX II B / IIC



### F502

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

Rating( ANSI ) : CLASS 150, 300, 600

Rating( DIN ) : PN16, PN40

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 : 30°, 60°, 90°

With Anti-static Device Option : Yes

CE API 607  
SIL 3 ATEX II B / IIC  
DIRECT MOUNT PAD





## 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

SIL 3

EC 1935

ATEX II B / II C



### 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 : 30°, 60°, 90°

CE

FDA

EC 1935

ATEX II B / II C



### 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

SIL 3

EC 1935

ATEX II B / II C

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 : 30°, 60°, 90°

With Anti-static Device Option : Yes

FDA

CE

SIL 3

EC 1935

ATEX II B / II C



### 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 : 30°, 60°, 90°

With Anti-static Device Option : Yes

FDA

CE

SIL 3

EC 1935

ATEX II B / II C

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

SIL 3

EC 1935

ATEX II B / II C

DIRECT MOUNT PAD



## 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

CE NACE MR-0175  
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



## 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 : 30°, 60°, 90°

With Anti-static Device Option : Yes

CE  
SIL 3 ATEX IIB / IIC  
DIRECT MOUNT PAD



## 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





## 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

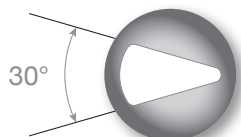


S.S Investment Casting Handle  
Material : CF8, CF8M

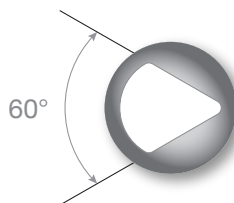


Butterfly Handle

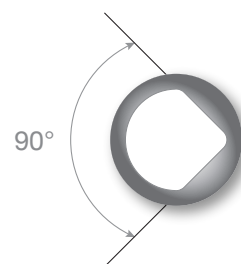
### V-Port Ball



30°



60°



90°

### Accessories



TSM



TSM with Handle

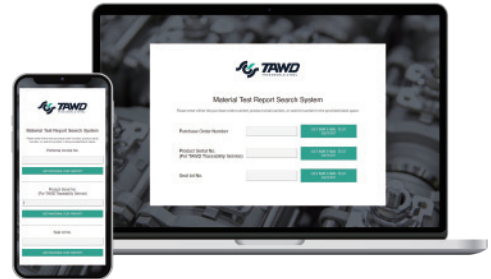


Actuator

# Digital Traceability Passport

## Rapid Traceability System

The Digital Traceability Passport ( DTP ) is a groundbreaking tool that enhances traceability and transparency in supply chain management. By making material test report accessible, DTP advances the digital revolution in manufacturing, focusing on efficiency, reliability, and quality. It reflects our commitment to ethics and helps businesses quickly identify and address issues.



## Key Benefits of the Digital Traceability Passport



### Comprehensive Traceability Service ( Optional )

Each valve is assigned a unique number in the DTP system, providing complete traceability. This allows for precise issue tracking back to the specific valve and supplier, enhancing accountability.



### Transparency and Reliability

DTPs offer detailed, secure insights into material composition, boosting transparency and reliability while ensuring all stakeholders understand their chemical components.



### Streamlined Process

The DTP system integrates seamlessly into digital workflows. This integration streamlines business process in material management and enhance supply chain coordination.



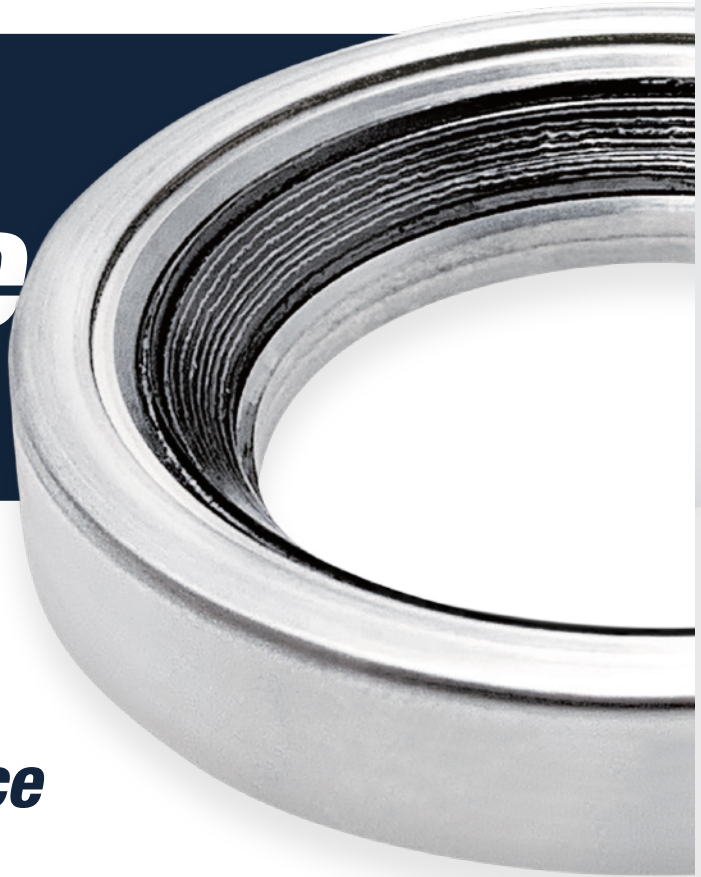
### Verifying Compliance

The DTP system ensures the materials comply with industry standards and regulations, while also maintaining adherence to quality standards and ensuring material conformity.

## Available Seats

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

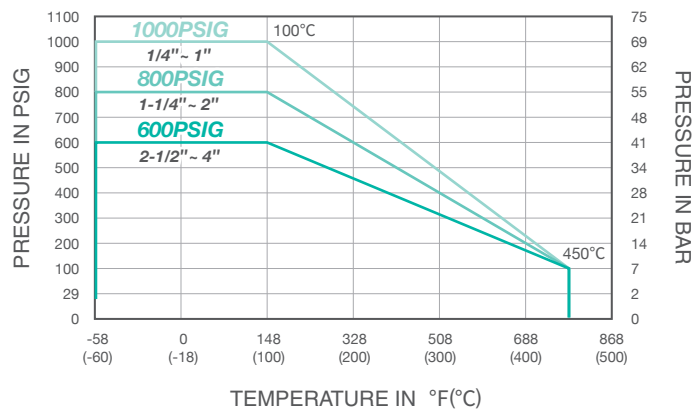
# Hard Graphite Seat



**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<br>(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                                                                 |





Transworld Steel Enterprise Co., Ltd.

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

**INNOVATION**

**INTEGRITY**

**STRICT SELECTION**