FLO-TITE BALL

DESIGN OPTIONS:

Unique Ball Design Series

Coated Balls Escaping Balls Flate Face Balls Open Port Balls





Flo-Tite's Unique Designs Allow for The Use of Ball Valves in Applications Never Possible.



YOUR ONE-STOP-SHOP for Engineered Solutions



BALL DESIGN

Flo-Tite's square ball was designed for severe services and pulp & paper. However, this highly engineered product addresses a variety of application challenges In many demanding applications, Media builds on the upstream side of the ball when in the closed position. Over time, the amount of media buildup makes the valve difficult to operate, and will cause the valve to leak prematurely.

Flo-Tite's unique square ball design has been field-proven to overcome the buildup problem. Media contact with the seat is minimized, while media particles are allowed to flow past the ball and seats.

1. Increased reliability

This provides:

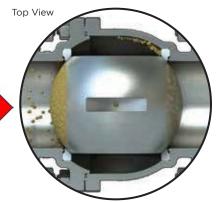
- 2. Improved operability
- 3. Extended service life
- 4. Significant reduction of the total cost

SQUARE BALL



SQUARE BALL DESIGN ADVANTAGES

STANDARD BALL DESIGN



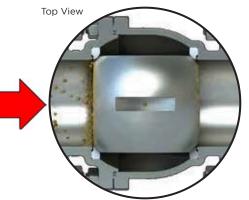
Large spherical surface area allows media buildup on the ball surface.

This design prevents:

Media buildup which leads to seat damage,
due to constant contact between ball
and seat during full 90° rotation.

High valve torque is required when there is significant media buildup. The valve seats could fail to operate, stem could shear, or the seats could begin to leak.

SQUARE BALL DESIGN SOLUTIONS



Square ball design minimizes effects of media buildup on the ball sealing surface and allows particles to flow throughout the ball cavity.

Seat life is extended, due to reduced media buildup and minimal contact between ball and seat .

Low valve torque is required to break minimal media buildup. Valve easily operates with standard actuation.





FEATURES AND BENEFITS

1 SELF FLUSHING / CLEANING

> Provided by unique ball design.

2 REDUCED SEAT-TO-BALL INTERFACE

> Provides lower operating torques

3 BIDIRECTIONAL SEALING

> Tested to API 598

4 MULTIPLE SEATING OPTIONS

> PEEK | Metal | TFM | Super Tek

5 STANDARD HIGH-STRENGTH STEM

- > 17-4 PH material
- > Blowout-proof design

6 MULTIPLE PACKING OPTIONS

> Fugitive emissions packing available

7 DIRECT REPLACEMENT BALL DESIGN

> Ball is a direct replacement for standard balls in select Flo-Tite valves



TYPICAL APPLICATIONS

- > Abrasive slurries
- > Pulp & paper
 - White liquor, green liquor, black liquor
- > Polyvinyl Chloride (PVC)
 - Reactor discharge | slurry

- > Calcifying and crystallizing medias
- > Storage tank isolation
- > Pump isolation
- > Produced water
- > Low-temperature steam

VALVE COMPATIBILITY

Body Style	Model	Pressure Class	Size Range	
			NPS	DN
Flanged (full port)	F15	ASME Class 150	1/2 to 12	15 to 300
	F30	ASME Class 300	_	
Flanged (standard port)	RF15	ASME Class 150	1 to 12	25 to 300
	RF30	ASME Class 300	_	
3-Piece ¹ (full port; standard port)	Tri-Pro	ASME Class 600	1/2 to 4	15 to 100

NOTES

Standard end connections include: butt weld, threaded & socket weld; extended weld; tube end; flanged; quick clamp.
Refer to Flo-Tite's technical bulletins for specific valve information.

DESIGN STANDARDS

Valve Design	ASME B16.34		
	API 609		
Corrosion Resistance	NACE MR1075 / ISO 15156		
Compliance	CRN Compliant		
End-to-End	ASME B16.10		
Fire Test	API 607 7th Edition		
Fugitive Emissions	API 641		
	ISO 15848-1		
Pressure Testing	API 598		



FLO-TITE'S SOLUTIONS ARE AVAILABLE IN A VARIETY OF INDUSTRIES.

ENERGY WATER

Mining Water / Wastewater
Oil & gas Ultra Pure Water
Power Desalination
Nuclear Power Irrigation

INDUSTRIAL INFASTRUCTURE

Chemical Beverage & Food Pulp & Paper Transportation

Textile Heating, Ventilation & Air Conditioning

Marine (HVAC)





DISTRIBUTION LOCATIONS THROUGHOUT THE U.S., CANADA, EUROPE, ASIA, SOUTH AMERICA, AND MEXICO.



PLEASE CALL (910) 738-8904 OR EMAIL SALES@FLOTITE.COM TO FIND A DISTRIBUTOR NEAR YOU.

FLO-TITE IS YOUR ONE-STOP-SHOP FOR ALL YOUR VALVE AND AUTOMATION REQUIREMENTS.

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