

SANITARY TRI-CLAMP BALL VALVE

15TCBV-PTFE / 2TCBV-PTFE

Fluoropolymer Lined Full-Port Tri-Clamp Ball Valve, 1.5" and 2" TC

This 304 stainless steel tri-clamp ball valve uses a seamless PTFE, ETFE, or PFA lining to give an inert, non-stick flow path for aggressive process media. It is rated to 1,000 PSI WOG at ambient temperature, offers a full-port unrestricted flow path, and installs and disassembles quickly with tri-clamp connections.

- ✓ **Seamless fluoropolymer lining.** PTFE, ETFE, or PFA liner gives an inert, non-stick flow path.
- ✓ **Rated to 1,000 PSI.** 1,000 PSI WOG at ambient temperature.
- ✓ **Full-port flow.** Unrestricted flow path through a full-port ball.
- ✓ **Broad chemical resistance.** Excellent resistance to strong acids, bases, and solvents.
- ✓ **Sanitary and CIP/SIP ready.** Quick tri-clamp installation and CIP/SIP compatible.

MODEL 15TCBV-PTFE / 2TCBV-PTFE



1,000 PSI
WOG PRESSURE AT
AMBIENT

-29 to 204°C
TEMPERATURE RANGE,
LINER DEPENDENT

-20 to 400°F
TEMPERATURE RANGE,
LINER DEPENDENT

1.5 to 2 in TC
TRI-CLAMP CONNECTION
SIZE

1/4 turn
MANUAL LEVER OPERATION

Technical Specifications

Model 15TCBV-PTFE / 2TCBV-PTFE

PERFORMANCE

Pressure rating	1,000 PSI WOG at ambient temperature
Temperature range	-20°F to 400°F (-29°C to 204°C), liner dependent
Temperature note	Operating window depends on selected PTFE, ETFE, or PFA liner and process conditions
Chemical resistance	Excellent resistance to strong acids, bases, and solvents
Valve configuration	Full-port ball valve
Port design	Full port / unrestricted flow path

OPERATION

Handle	1/4-turn manual lever handle
Mounting orientation	Any position
Installation	Quick tri-clamp installation and disassembly
Cleaning	CIP/SIP compatible
Cleaning note	Verify selected liner and complete system materials for the specific cleaning cycle
Liner selection	Depends on process media, temperature, purity, and application conditions; confirm media compatibility

CONSTRUCTION

Body material	304 stainless steel
Lining material	PTFE, ETFE, or PFA high-purity fluoropolymers
Lining construction	Seamless, inert, non-stick flow path
Seats and seals	PTFE
Internal surface	Smooth, non-stick fluoropolymer lining
External surface	Polished stainless steel
Connection type	Tri-Clamp / sanitary clamp
Brand	USA Lab
Item class	Stainless Steel Components

DIMENSIONS AND WEIGHT

Available sizes	1.5" TC to 2" TC
-----------------	------------------

IDEAL APPLICATIONS

Chemical processing Pharmaceutical Food and beverage Biotech Botanical extraction Laboratory systems

Specifications by Size

Model 15TCBV-PTFE / 2TCBV-PTFE

Specification	1.5" TC 15TCBV-PTFE	2" TC 2TCBV-PTFE
Connection size	1.5" TC	2" TC
Item name	USA Lab PTFE Lined 1.5" Tri-Clamp Ball Valve Sanitary Stainl	USA Lab PTFE Lined 2" Tri-Clamp Ball Valve Sanitary Stainles

ORDERING INFORMATION

CATALOG NO.	DESCRIPTION	SIZE
15TCBV-PTFE	USA Lab PTFE Lined 1.5" Tri-Clamp Ball Valve Sanitary Stainless 304SS body, full port, 1,000 PSI WOG	1.5" TC
2TCBV-PTFE	USA Lab PTFE Lined 2" Tri-Clamp Ball Valve Sanitary Stainless 304SS body, full port, 1,000 PSI WOG	2" TC