

# Piston Valve

## Overview

Plug Valves are engineered for high-cycle, low-emissions service, these non-lubricated plug valves come with an extra measure of positive stem sealing reliability design feature to suit a broad variety of applications, reliably addressing the vast majority of requirements.

Plug valves are valves with cylindrical or conically tapered “plugs” which can be rotated inside the valve body to control flow through the valve. The plugs in plug valves have one or more hollow passageways going sideways through the plug, so that fluid can flow through the plug when the valve is open.

## PRODUCTS

### Specifications

### SIZES RANGE

- ¼” to 8” (8 mm to 200 mm)

### PRESSURE RATING

- PN 10, PN 16, Class 150 to Class 2500

### DESIGN STANDARDS

- ASME B16.34, API 6D and API 599.

### TESTING STANDARD

- API 598, API 6D.

### Operations

#### MANUAL

- Bare-shaft, Lever & Gearbox.

#### AUTOMATION

- Electric, Pneumatic, and Hydraulic Actuators.



## End Connection

SCOPE  
STANDARD  
Socket-Weld Ends  
ASME B16.11  
Screwed-End BSPT  
ISO 7-1  
Screwed-End NPT  
ASME B1.20.1  
End Flange  
ASME B16.5 RF/ FF/ RTJ  
Tri Clover End

## Special Features

- The piston always held by value ring in either open or closed position resulting in no vibration.
- It can be used as bi-directional valve.
- However it is preferred to install the valve such that pressure acts below the piston.
- Value ring used for sealing is made up of packing, hence the piston valve acts as a soft seated valve.
- The piston valves used in many brass instruments
- Also used in many stationary steam engines and steam locomotives

## Shutoff Rating

Zero Leakage for Soft Seated & Metal Seated as per API 598 or relevant STD.