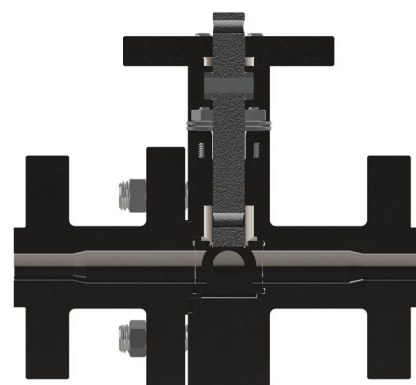
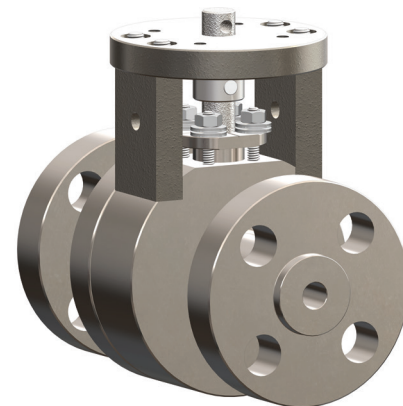




MCV - Copeland Ball Valve

Since 1947, Copeland has been a well-known innovator in highly engineered, metal seated ball valves. For nearly 80 years, our team has been providing high-end valve solutions to many high temperature, high pressure severe service applications through our core markets in Power and Oil & Gas.

Reliability has been the core focus for our valve products over this time, and we take pride in the long-lasting installed life of our products with applications success of over 1 million cycles between change outs. We continue to innovate through our long-standing expertise and stand behind our products' success with fast service that you can rely upon, and product availability that keeps your plants online and performing at their peak.



Common Applications

Power	Refining Petrochemical
Boiler Feed Pump	Reforming
Cold Reheat Drain	Gasification FCCU
Economizer	Catalyst Isolation
Feed Water Heater	Hydro-Processing
Isolation Steam to Pulverizer	Hydrogen Isolation
Main Steam & Reheat Steam	Heavy Oil
Spray Soot Blower	Catalyst Slurry
Steam Drum Instrument	



Valve Shutoff

- Polished and hardened seat surface that prevent wear and impurities from collecting against critical areas.
- Seat edge technology designed to scrape away and solids or loose debris gathered within shutoff areas.
- Tight tolerance, lapped sealing surfaces to provide zero-leakage.
- Over-sized ball design to provide a tight sealing, even with actuator misalignment due to wear from long service life.

Superior Material Selection

- Carbon Steel and high-grade Chrome-Moly forged body construction.
- Standard material for the ball, seat and stems supplied with 410 SST coated with CFS131 chrome carbide applied through high precision HVOF thermal spray.
- Optional materials severe environments include 17-4 ph, 316 SST, Inconel, Ferralium 255, Hastelloy, Monel, Alloy 20, Titanium and Zirconium.
- Custom engineered coating to match corrosive application requirements.

Stem Seal Bearings

- Copeland uses a variety of materials and configurations for thrust bearings and side load bearings to maintain stem alignment through high cycle applications.
- A stem bushing located on the actuator mounting plate provides an additional bearing to keep the stem perfectly aligned.
- Live loaded packing boxes to meet fugitive emissions standards.

Locked-in Down Stream Seat

- Locked-in downstream seat is an integral part of the end connection and to prevent leakage and build-up between the body and seat.

Optional Features

- Flushing ports, Bi-directional sealing.

Valve Size (NPS)	ANSI Class	Body Material
1/2" - 20"	900# - 4500#	ASTM A105 ASTM F316