

Nil-Cor Ball Valves

ABOUT US

CATALOGS

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Nil-Cor offers a choice of six ball valve models in a selection of corrosion resistant advanced composite materials and sizes to meet the requirements of the chemical process industry. All Nil-Cor Ball Valves feature lightweight, corrosion resistant bodies and a lock-out provision as standard equipment.

Nil-Cor ball valves are available in nine sizes from 1/2" through 8", with a selection of manual operators and pneumatic actuators.



Nil-Cor Flanged Ball Valves



Valve Design:

The valve body strength and operational integrity are achieved through both valve design and material properties. To give ruggedness and durability, our composite valve body is designed with heavier wall and flange thicknesses than metal or plastic valves.

All Nil-Cor valves offer exceptional internal and external corrosion resistance for extended valve life over metal and lined metal valves. Nil-Cor Advanced Composite Valves are resistant to more than **1000 standard chemical combinations**.

Nil-Cor valves are 1/3 the weight of metal valves. This low weight saves money in piping supports and makes Nil-Cor Ball valves ideal for use on plastic and FRP flanged piping systems.

The balls in Nil-Cor ball valves are made from fiber-reinforced resin providing both strength for resistance to torsional actuation loads and lubricity to minimize actuation torque. The graphite reinforcement also reduces potential fouling since line media tend not to adhere to it, and the seals easily wipe clean further minimizing breakaway torque.

Nil-Cor Threaded Ball Valves





This special purpose ball valve is available in ½", ¾", 1", 1½" and 2" sizes for corrosive chemical service in pressure piping systems. It is available in both Nil-Cor 510 (glass fiber reinforced PPS resin) and Nil-Cor 410 (glass fiber-reinforced polysulfone resin). Short term exposure to 300°F is acceptable. Exposure above 325°F should be avoided.

Design:

Valves have standard NPT ½", ¾", 1", 1½" and 2" end connections. Valve sizes ½", ¾" and 1" have regular port one inch balls in the center body section. The 1½" and 2" valves are regular port. The three-piece design permits assembly to replace all parts without machining or bonding or unthreading pipe connections.

Materials of Construction:

The 410 and 510 Threaded-End Ball Valves are geometrically identical, but made with different resins. The 410 and 510 body, end caps, ball and Hastelloy "C" stem insert are molded in either the 410 or the 510 composite material. Both valves share the same graphite fiber-reinforced TFE stem thrust washer, self-relieving virgin TFE seats, Viton(R) stem and body O-rings, composite T-handle, and 300 series stainless steel body bolts, nuts and washers.

Benefits:

- Corrosion Resistance
- Ease of Maintenance
- Low Operating Torque
- Standard Lockout Provision

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