



To satisfy a wide range of critical process conditions, SVF offers bar stock AL-6XN ball valves. AL-6XN is a "superior austenitic" stainless steel with superior resistance to chloride pitting, crevice corrosion and chloride stress corrosion cracking.

**Features**

- ▲ Meets 3A, USDA and FDA material requirements
- ▲ Excellent corrosion resistance to acid chlorides and bacteria
- ▲ Very high threshold for chloride stress corrosion cracking
- ▲ AL-6XN has much higher strength than the Titanium alloys
- ▲ AL-6XN features low Carbon, high purity, and high Nitrogen in addition to the highest levels of Chromium, Nickel and Molybdenum available in the austenitic stainless steels
- ▲ Approved for both ASTM and ASME Boiler & Pressure Vessel Code



**AL-6XN versus Type 316L**

Material	Cr	Ni	Mo	N
AL-6XN	20%	24%	6%	0.22%
316L	16%	10%	2%	0.5%

- ▲ Sulfur is normally in the range of 0.007%
- ▲ Carbon content maximum, typically 0.20%
- ▲ The Unified Number System (UNS) designation for AL-6XN is N08367

**Chemical Composition, %**

Element	Min	Max.
Nickel	23.50	25.50
Chromium	20.00	22.00
Molybdenum	6.00	7.00
Carbon	-	0.03
Nitrogen	0.18	0.25
Manganese	-	2.00
Silicon	-	1.00
Phosphorus	-	0.04
Sulphur	-	0.03
Copper	-	0.75
Iron	Remainder	

SVF AL-6XN ball valves are produced in a bar stock design. This means that we can provide complete solutions for a variety of sizes, end connections and for actuation.

**Pharmaceuticals   Chemicals   Breweries   Food Processing   Bleaching Plants**