

Procurement Description*	ARRA Funded: High Temperature Molten Salt Globe and Gate Valves – Sandia National Laboratories' Solar Technologies organization has a need for High Temperature Molten Salt Globe and Gate Valves. The molten salt is a mixture of 60% sodium nitrate and 40% potassium nitrate. The globe and gates valve shall be designed to provide positive shutoff at pressures of 1200 psig at continuous operating temperatures of 1022°F with maximum operating temperature of 1382°F. The valves shall be capable of operating continuously for minimum of 5,000 hours without maintenance.
Statement of Work*	Sandia National Laboratories' Solar Technologies organization has a need for a High Temperature Molten Salt Globe and Gate Valves. The globe and gate valve will be 6-inch to 10-inch in range sizes, the valve will be stainless steel with bellows seal constructed of inconel 625, stainless steel extended welded bonnet, with butt weld end. The valve packing will be manufactured of braided graphite rings with interspace glass fiber reinforced Teflon washers. The valves shall be manufactured and tested in accordance with ANSI B16.34, and API 600 and 598. The molten salt is a mixture of 60% sodium nitrate and 40% potassium nitrate. The globe and gates valve shall be designed to provide positive shutoff at pressures of 1200 psig at continuous operating temperatures of 1022°F with maximum operating temperature of 1382°F. The valves shall be capable of operating continuously for minimum of 5,000 hours without maintenance.
Mandatory Requirements*	The system shall: The valve manufacturers must show at least 15 years of experience in the design and manufacturing of globe and gate valves in the molten salt industry at similar temperatures and pressures.
DOE funding statement	"Sandia National Laboratories is a multi-program laboratory managed and operated by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corporation, for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-AC04-94AL85000."