

# Shape Memory Alloy Valves: Basics, Potentials, Design



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<https://www.cmc.ca/fr-CA/WhatWeOffer/Products/CMC-00200-01245.aspx>

### **Shape Memory Alloys Actuators (SMA Actuators) -**

Shape Memory Alloys Actuators, electro-mechanical actuators, SmartFlex, SmartFlex Wires, SmartFlex Springs. Skip to main content. SAES Getters making

<https://www.saesgetters.com/group/media-center/videos/shape-memory-alloys-actuators-sma-actuators>

### **Nickel titanium - Wikipedia, the free encyclopedia -**

While the potential applications for nitinol were realized immediately, (peripheral stents and heart valves), D.C. Lagoudas, ed., Shape Memory Alloys,

<http://en.wikipedia.org/wiki/Nitinol>

### **properties of NiTi shape memory alloys with its -**

READING DIRECT: www.journalamme.org 369 Properties 1. Introduction Shape memory alloys represent a very encouraging material to be used as active elements for

[http://journalamme.org/papers\\_vol55\\_2/58223.pdf](http://journalamme.org/papers_vol55_2/58223.pdf)

### **Index - Shape Memory and Superelastic Alloys -**

shape memory alloy coil springs design. 63 9; SMA actuators design. based alloys. 33 5; switch valve; 120; T. TAI; thermodynamic potential; 143;

<http://www.sciencedirect.com/science/article/pii/B9781845697075500213>

### **Evaluation of a Shape Memory Alloy Reinforced -**

Evaluation of a Shape Memory Alloy Reinforced minimally invasive mitral valve repair, with potential over the design of

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3782253/>

### **Shape Memory Alloys - Medical Applications -**

Aug 02, 2015 Shape Memory Alloys are now used in a wide range of medical and dental applications. This article describes the basic physics and alloy shape has a

<http://www.azom.com/article.aspx?ArticleID=134>

### **Shape Memory Alloy Starter Kit - Mide Technology -**

Great introduction to Shape Memory Alloys (SMAs). actuators and valves. The Perfect teaching tool. The Shape Memory Alloy (SMA)

<http://www.mide.com/products/shape-memory-alloy/shape-memory-alloy-starter-kit.php>

### **OBTAINING SHAPE MEMORY ALLOY THIN LAYER USING PLD -**

OBTAINING SHAPE MEMORY ALLOY THIN LAYER linear behavior of Shape memory films as well as design and simulation of Few basic properties of shape memory thin

<http://www.doiserbia.nb.rs/img/doi/1450-5339/2014/1450-53391400010C.pdf>

### **Applications of Shape Memory Alloys in Offshore -**

Applications of Shape Memory Alloys in This growth has made it necessary for this industry to investigate and design new and such as the shape memory  
<http://cedb.asce.org/cgi/WWWdisplay.cgi?261435>

### **A miniature shape memory alloy pinch valve - -**

A normally closed miniature pinch valve employing a Nitinol shape memory alloy actuator to control flow in A miniature shape memory alloy pinch valve. Catherine M  
<http://www.sciencedirect.com/science/article/pii/S0924424799001570>

### **Shape Memory Alloy Valves: Basics, Potentials, -**

This book introduces shape memory alloy (SMA) technology with a specific focus on valve applications. The authors describe the basics of shape memory actuators  
<http://www.amazon.com/Shape-Memory-Alloy-Valves-Potentials/dp/3319190806>

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### **On the Potentials of Shape Memory Alloy Valves - -**

the Potentials of Shape Memory Alloy Valves design-options of different applications is presented in the first part of the publications. This is followed by a  
<http://link.springer.com/article/10.1007/s11665-014-1076-7>

### **Shape- Memory Alloys Have Use in -**

Feb 09, 2012 Researchers are analyzing shape-memory alloys for their potential use in constructing seismic-resistant structures as they have the ability to dissipate  
<http://www.laboratoryequipment.com/news/2012/02/shape-memory-alloys-have-use-earthquake-resistance>

### **Pneumatic valves based on Magnetic Shape Memory -**

Basic Search; Author Search Pneumatic valves based on Magnetic Shape Memory Alloys: Potential applications Full Text magnetic shape memory alloy; pneumatic valve;  
<http://ieeexplore.ieee.org/xpl/abstractKeywords.jsp?reload=true&arnumber=5945827>

### **An Implantable Drug Delivery System Based on Shape -**

An Implantable Drug Delivery System Based on Shape-Memory Alloys 331 Fig. 1. Basic design, shape memory alloys will on Shape-Memory Alloys 343 valve.  
[http://link.springer.com/content/pdf/10.1007/978-3-642-59768-8\\_23.pdf](http://link.springer.com/content/pdf/10.1007/978-3-642-59768-8_23.pdf)

### **Hydrodynamic characterization of a passive shape -**

Hydrodynamic characterization of a passive shape memory alloy valve A NiTi Shape Memory Alloy (SMA) micro-valve design Potential sources of uncertainty in the  
[http://iopscience.iop.org/1742-6596/525/1/012010/pdf/1742-6596\\_525\\_1\\_012010.pdf](http://iopscience.iop.org/1742-6596/525/1/012010/pdf/1742-6596_525_1_012010.pdf)

### **Shape- memory alloys take an earthquake's punches -**

Feb 08, 2012 Georgia Tech researchers used a thermal camera to record the variation in surface temperature (top) of a shape-memory alloy experiencing loading and  
<http://www.rdmag.com/news/2012/02/shape-memory-alloys-take-earthquakes-punches>

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This book introduces shape memory alloy technology with a specific focus on valve applications. The authors describe application characteristics as well the current

<http://www.springer.com/us/book/9783319190808>

### **essap.tamu.edu -**

teaching team we introduced the topic of Shape Memory Alloys and the Design in which the basic The students were given this scenario to design a valve

<http://essap.tamu.edu/e3/docs/2008-cd-files/2008%20E3%20Participant%20Final%20Reports%20-%20CD%20for%20L%20Cardenas%2015%20June%2009/Eppes-FINAL%20REPORT-E3%202008.rtf>

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Shape Memory Alloy - 591 results from DoggySnooze, Toto, Toto TSTAR Shape Memory Alloy Thermostatic Mixing Valve with Single, Shape memory alloy

<http://www.nextag.com/shape-memory-alloy/products-html>

### **Thermal control of shape memory alloy artificial -**

Thermal control of shape memory alloy artificial anal sphincters The basic design of the arti cial sphincter which eliminates potential infections that are

[http://iopscience.iop.org/0964-1726/14/1/003/pdf/sms5\\_1\\_003.pdf](http://iopscience.iop.org/0964-1726/14/1/003/pdf/sms5_1_003.pdf)

### **Shape Memory Alloys Components - SAES Getters -**

Shape Memory Alloys Components Shape Memory Effects. Superelastic Effects . SAES Group site uses cookies. View our Privacy and Cookie Policy to learn more about this;

<https://www.saesgetters.com/products/shape-memory-alloys-components>

### **Applications of shape memory alloys in civil -**

Applications of shape memory alloys in civil structures Basics about shape memory alloys have a good potential for seismic protection.

[http://smsl.egr.uh.edu/sites/smsl/files/files/publications/Song\\_Ma\\_Li\\_%20SMA\\_civil\\_application.pdf](http://smsl.egr.uh.edu/sites/smsl/files/files/publications/Song_Ma_Li_%20SMA_civil_application.pdf)

### **Amazon.com: Shape memory alloys: Books -**

Shape Memory Alloy Valves: Basics, Potentials, Design Sep 14, 2015. there is only one book on shape memory alloys `6 in English, but there

<http://www.amazon.com/s?ie=UTF8&page=1&rh=n%3A283155%2Ck%3AShape%20memory%20alloys>

### **Otto Egelhof GmbH & Co. KG - Regelungstechnik - -**

Is a component made of a shape memory alloy is deformed of innovative potentials for and distribute expansion valves and other components

<http://www.egelhof.com/egelhof/us/ShapeMem.php>

### **The Possibility of Muscle Tissue Reconstruction -**

A basic design of the artificial By introducing the potential of shape memory alloys Tanahashi Y, Takagi T, Tanaka M, Tanikawa J. Development of an artificial

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2645520/>

### **Shape- memory alloy - Wikipedia, the free -**

A shape-memory alloy the temperature of a Cu-Zn alloy. The basic phenomenon of the memory effect governed by the potential for other high

[http://en.wikipedia.org/wiki/Shape\\_memory\\_alloy](http://en.wikipedia.org/wiki/Shape_memory_alloy)

### **Nickel - Titanium Shape Memory Alloys - AZoM -**

Aug 03, 2015 Topics Covered: Background. History. Compositional Variations. Work Hardening and Two Way Shape Memory Effect. Properties. Applications. Background: The

<http://www.azom.com/article.aspx?ArticleID=1365>

### **Shape Memory Alloys Continue to Improve - -**

Since the discovery of Shape Memory Alloy (SMA) Design Considerations Advances in both the understanding of these alloys and new types of shape memory alloys

<http://www.appliancedesign.com/articles/94423-shape-memory-alloys-continue-to-improve-the-future>

### **Shape Memory Alloys | Active Disassembly using -**

Shape Memory Alloys The purpose of this paper is to compare different AD approaches and highlight future work and potential. Design Shape Memory Material

<http://www.activedisassembly.com/tag/shape-memory-alloys/>

### **DYNALLOY, Inc. | Shape Memory Alloy Manufacturer -**

Superior shape memory alloys and sma devices from Today DYNALLOY, Inc. uses this technology and proven expertise for implementing the technology by working

<http://www.dynalloy.com/>

### **Shape- memory alloys | Products | Nippon Steel & -**

Shape-memory alloys are metals that, but Ni-Ti alloys have the best shape-recovery performance, water regulator valves,

<http://www.nssmc.com/en/product/railway-automotive-machinery-parts/keijou/index.html/>

### **A practical look at shape memory alloys' potential -**

The Shape Memory Alloy Design Potential Understanding of the metallurgy of the structure a practical application shown against the basic design.

<http://www.sciencedirect.com/science/article/pii/S0261306986900063>

### **Micro Shape Memory Alloy Valve - Dolomite -**

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[http://www.dolomite-microfluidics.com/webshop/oem-components-valves-shape-memory-c-60\\_65\\_66/micro-shape-memory-alloy-valve-p-282](http://www.dolomite-microfluidics.com/webshop/oem-components-valves-shape-memory-c-60_65_66/micro-shape-memory-alloy-valve-p-282)

### **Latching valve control using ferromagnetic shape -**

Latching valve control using ferromagnetic shape memory alloy C. van Schoor "Latching valve control using Muscles: Reality, Potential,

<http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=1317036>