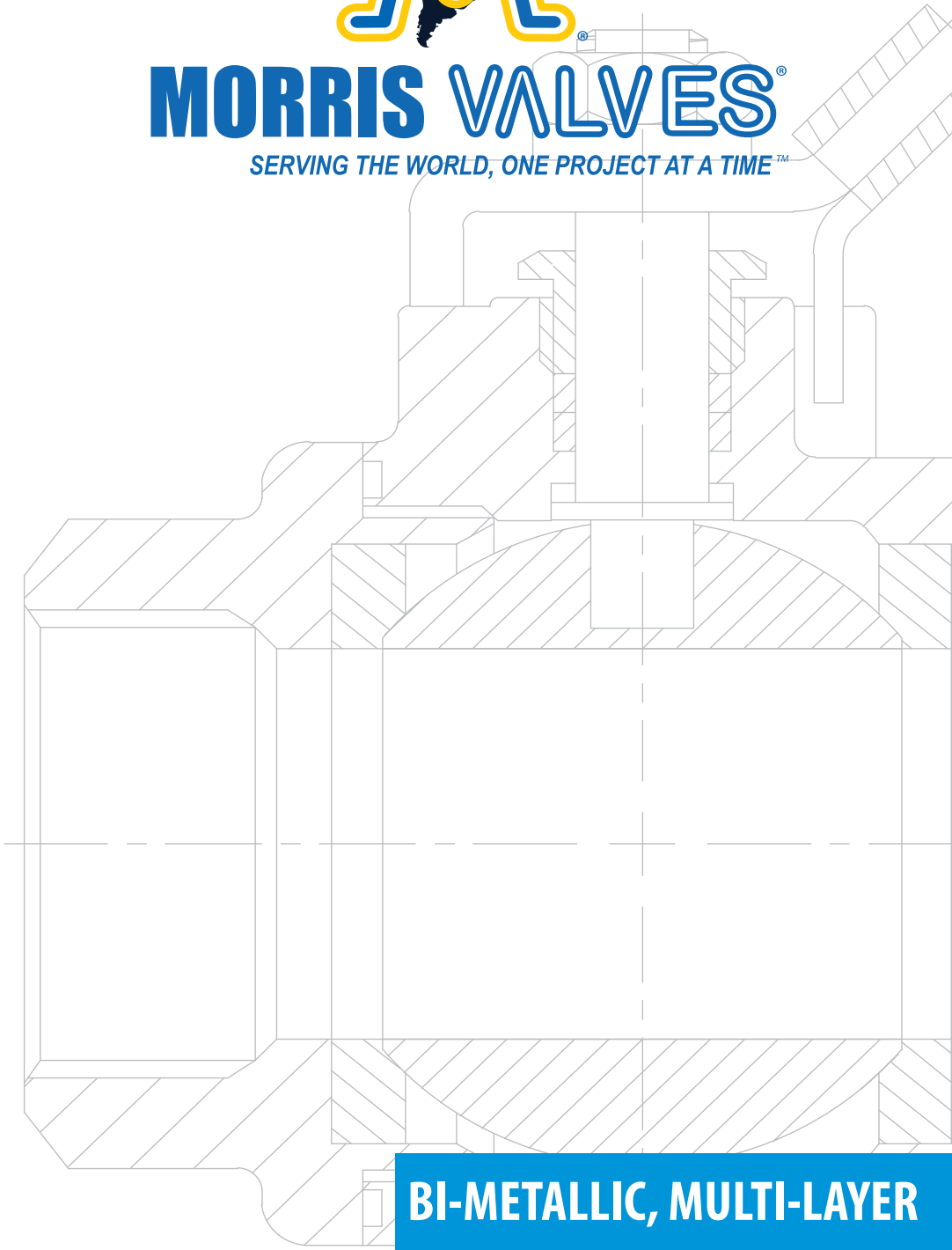




MORRIS VALVES®

SERVING THE WORLD, ONE PROJECT AT A TIME™



BI-METALLIC, MULTI-LAYER

www.morrisvalve.com



In 1984, our journey into the business of repairing valves and industrial instrumentation began. That journey has led us to represent and service well known American brands and companies. In early 2000, our experience and growing passion for the valve industry encouraged our decision to launch our own brand, Morris Valves. Starting with the highly requested Ball Valves, the brand has been based on the principal of quality and performance to match our customers' needs. Our high standards of production later lead us to incorporate other models such as Gate Valve and Check Valves to our production. These additions were carefully selected to match our Standard of Quality. Our success has been driven by our belief of "Tradition with Quality" in everything we do. Our products are developed with that belief which drives our growth and guides the service we provide to our customers.

Our vision is to be amongst the leading corporations in the supply of goods and services related to valves, their components and industrial equipment in general. We want to conquer new markets in conformity with international standards and remain committed to customer satisfaction, the welfare of our company and the sustainability of our planet.

Mission

Our mission is to use our highly trained, highly focused, and extremely motivated staff to work with manufacturers who value quality and have the vision for new development and product applications to ensure the timely provision of goods and services related to valves, their components and industrial equipment in general. We maintain a rigorous standard of customer satisfaction, which will provide for the welfare of the company, the welfare of the countries we serve, and most importantly the sustainability of the planet.

Contacts

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Vision

"Serving the world, one project at a time"

United States of America

United States Patent and Trademark Office

MORRIS VALVES

Reg. No. 5,462,890

Registered May 08, 2018

Int. Cl.: 7

Trademark

Principal Register

MORRIS VALVES, INC. (FLORIDA CORPORATION)
5590 N.w. 84th Ave.
Miami, FLORIDA 33166

CLASS 7: Valves being parts of machines; Valves as machine components; Butterfly valves being parts of machines; Gate valves being parts of machines; Plug valves being parts of machines; Globe valves being parts of machines

FIRST USE 00-00-2010; IN COMMERCE 00-00-2010

THE MARK CONSISTS OF STANDARD CHARACTERS WITHOUT CLAIM TO ANY PARTICULAR FONT STYLE, SIZE OR COLOR

OWNER OF U.S. REG. NO. 4840307, 4241184, 4241186

No claim is made to the exclusive right to use the following apart from the mark as shown:
"VALVES"

SER. NO. 87-575,517, FILED 08-18-2017



Andrei Iancu

Director of the United States
Patent and Trademark Office

BI-METALLIC, MULTI-LAYER

Electrical Transition Joints

TYPE:

- * ETJ-Al304-152x127x12.7/9.5
- * ETJ-AlTi304-152x127x9.5/2/12.7
- * ETJ- AlTi1008-152x127x9.5/2/12.7

FEATURES:

- Stably run in 600KA, high-current electrolytic cells.
- High Conductivity
- Low electricity consumption
- High bonding strength
- Good comprehensive Mechanical Properties.
- Working temperature: (400 – 500) °C

TESTING:

- ASTM A578 (ULTRASONIC TEST) 100% All Bonded Plates, 100% Welding Blocks Bonding rate. Acc.
- TENSILE STRENGTH. Acc. ISO 6892. Metal Material Room Temperature Tensile Test Method.
- SHEAR STRENGTH of Welding Block
- Al-304 SST ≥ 90 Mpa
- Al-Ti-304SST ≥ 95 Mpa
- HEAT RESISTANCE.
- Al-304 SST ≥ 400 °C
- Al-Ti-304SST ≥ 450 °C
- RESISTIVITY.

When passing 6666A current at normal temperature, the voltage drop on the junction shall not be higher than 2mv, and the resistivity is $10 \times 10^{-8} \Omega \cdot m$.

- TOLERANCES

The explosive welding blocks tolerance for size and thickness is ± 2 mm (1.5" ± 0.08 ").

Flatness: For widths higher than 150 mm (6"), the variation from a flat surface is not greater than 1 % of the width.

For widths within 150 mm (6"), the variation from a flat surface is not greater than 1.5 mm (0.06").



CE APPROVED



MORRIS VALVES
SINCE THE FIRST ONE PROJECT OF A TREE

Temperature	Electrical Resistivity		
	Resistivity/ $\Omega \cdot m, *10^{-7}$		
	Al-SST	Al-Ti-SST	
Room Temperature	0.97	1.25	
300 C/24h	4.05	1.44	
400 C/24h	4.94	1.23	
500C/24h	5.50	1.98	
Tensile Strength			
Room Temperature	155 Mpa	173 Mpa	
300 C/24h	128 Mpa	160 Mpa	
400 C/24h	80 Mpa	138 Mpa	
500C/24h	<20 Mpa	126 Mpa	
Shear Strength			
	Al-SST	Al-Ti	Ti-SST
Room Temperature	90 Mpa	95 MPa	245 MPa
300 C/24h	87 MPa	95 Mpa	245 Mpa
400 C/24h	75 Mps	90 Mpa	240 Mpa
500C/24h	< 20 Mpa	80 Mpa	220 Mpa





A Tradition of Quality

Our passion is to develop solutions for difficult situations in Industrial Applications, no matter how large or small the project.

"Serving the world, one project at a time"

