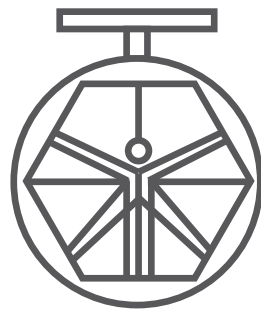
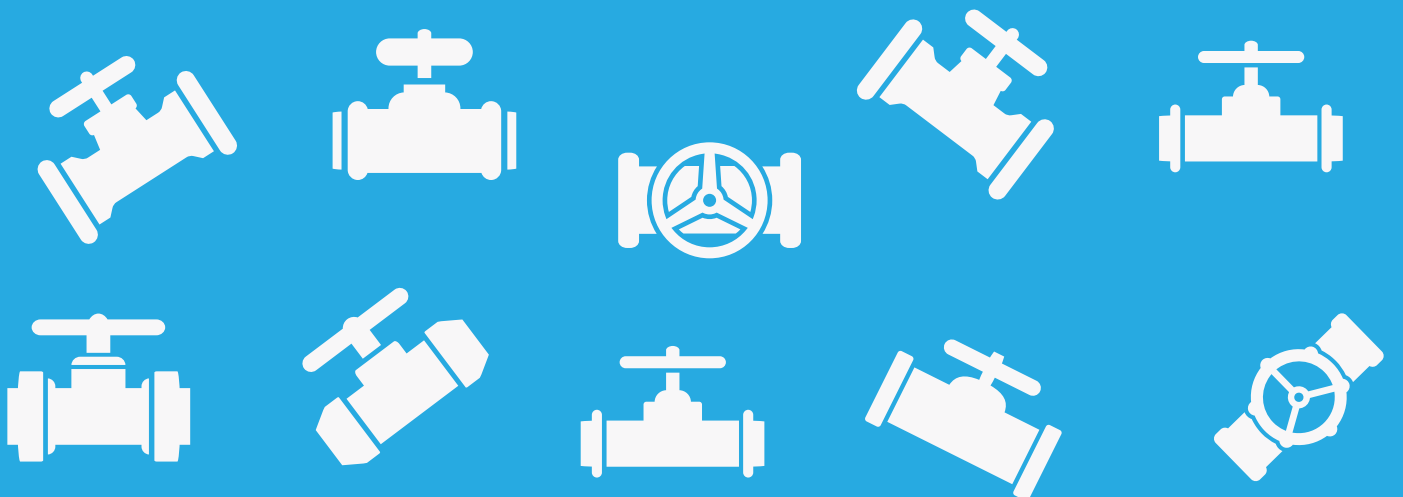
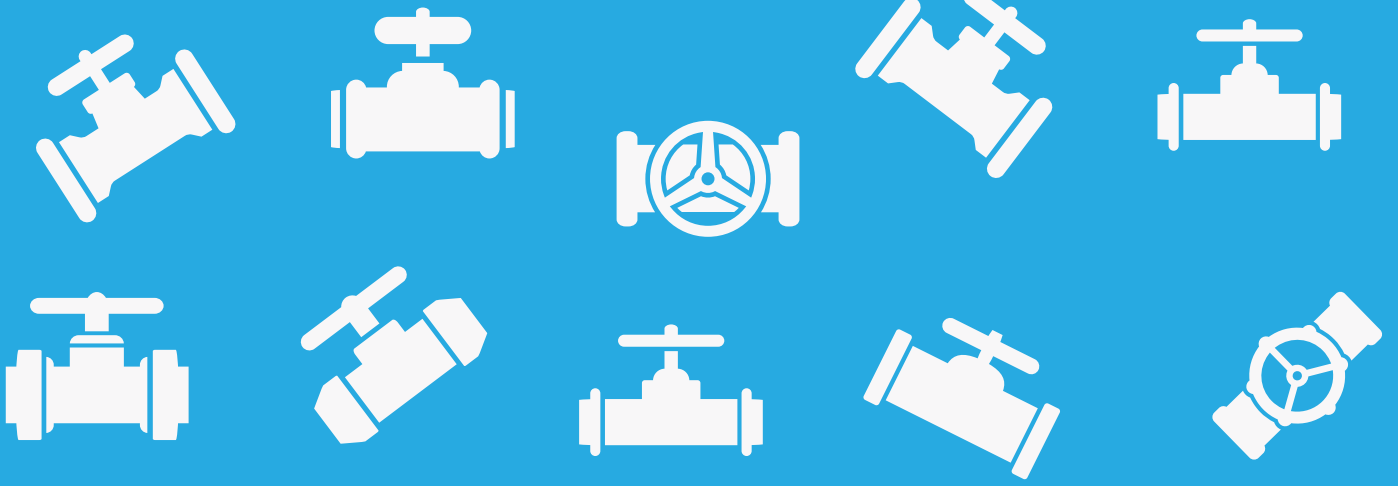


COMPANY
INTRODUCTION
BROCHURE



DAVINCI
VALVES™

"Quality that satisfies"



About DAVINCI VALVES

DAVINCI VALVES is a global leader in manufacture and trading services specialized in valves and pipe tubes complements.

The insights and quality services we deliver help build trust and confidence in the capital markets and in economies the world over. In so doing, we play a critical role in building a better working world for our people, for our clients and for our communities.

For more information about our organization, please visit davincivalves.com.

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In line with DAVINCI VALVE's commitment to minimize its impact on the environment, this document has been printed on paper with a high recycled content.

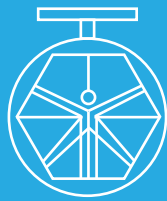
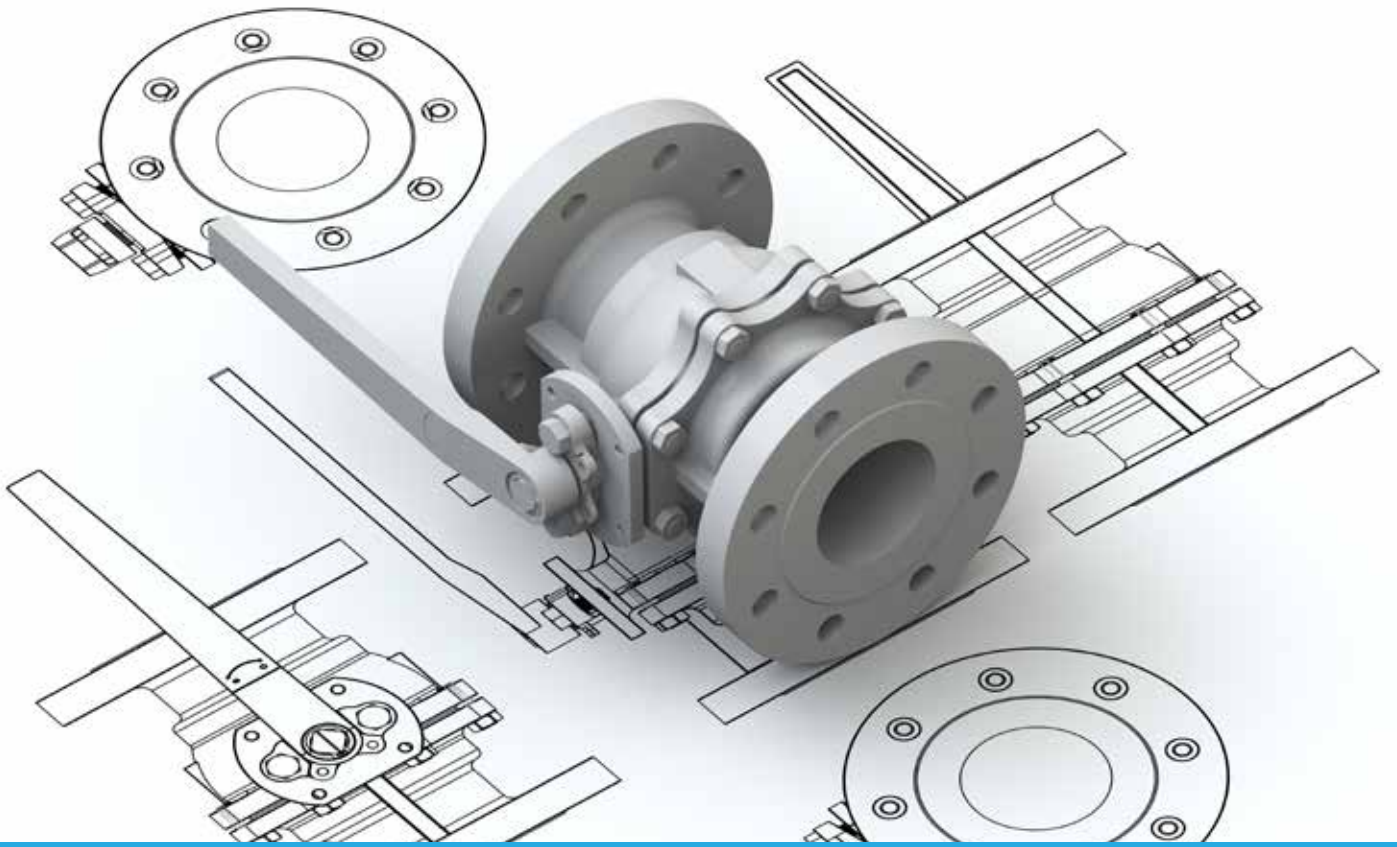
This material has been prepared for general informational purposes only and is not intended to be relied other professional advice.

Always refer to the Technical Data Sheet for complete description of all listing criteria, design, parameters, installation instructions, and care and maintenance guidelines. The information given here is, to the best of our knowledge, correct at the time of going to press.

However our company, DAVINCI VALVES LTD, is constantly looking at all ways of improving our products and services related to the water, fire and industry sector and therefore we reserve the right to change, without prior notice, any of the data contained here.

Please contact our Technical Sales Department for detailed advice.

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DAVINCI
VALVES™

We Are





DAVINCI VALVES™



DAVINCI VALVES LTD dedicates all its development, production and marketing to the valves, hydrants and accessories for the supply of water, wastewater treatment, fire protection and industry applications all over the worldwide.

We assure to deliver the products we produce in high standard quality conditions with a strong technical feedback and that way ensure that our close customer relations reach the higher level of satisfaction.



We also offer the specific certification for the different types of tests that verify the measurements, the quantities, the weights, in addition to the tests that check both the components and the final product as the absolute guarantee delivery service of DAVINCI VALVES LTD.



Whichever requirements you may have, DAVINCI VALVES LTD as a worldwide solutions supplier have a wide range of standard products catalogue at your disposal and the capacity and expertise to manufacture of all kind of customised valves.





DAVINCI
VALVES™

We Do





DAVINCI VALVES™



DAVINCI VALVES LTD manufacture program includes the capability of offering valves complying with many national and international standards, like: AWWA, JWWA, DIN, ISO, AS/NZS, NF, BS, GOST and CEN. Just ask for more data.

We produce not only different type of valves, couplings and accesories for water supply and wastewater treatment applications, so on you may reach us in fire protection field and different industrial projects or climatization area requests.



These sectors requirements, such as all suggestions of all our partners and customers all over the world-wide, are always primary in the only way to reach and ensure our offer of wide range of products with high quality and very competitive prices.

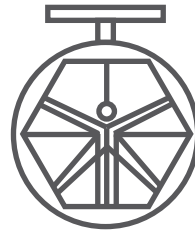
We dedicate time and expertise to always offer the highest quality at the very best price, investing since the first moment on our long-term customer business relationships.



Our deliveries are vital and punctual to allways give the response to our customers which they looks for in their projects in hand or also with all the requirements which assure them to concrete one.



WATER series



DAVINCI VALVES™



Gate Valves
Butterfly Valves
Air Valves
Pressure Regulating Valves
Check Valves
Fitting
Accessories



WATER



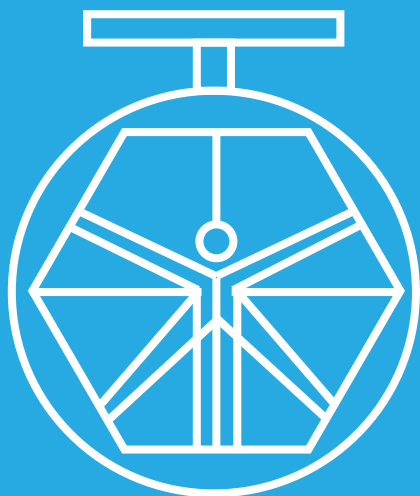
WASTEWATER



IRRIGATION

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WATER series



Water is one of the most important resources for humanity and nowadays there are still not alternatives to search after, that is why is very important to keep as much as possible modern and sensible water management.

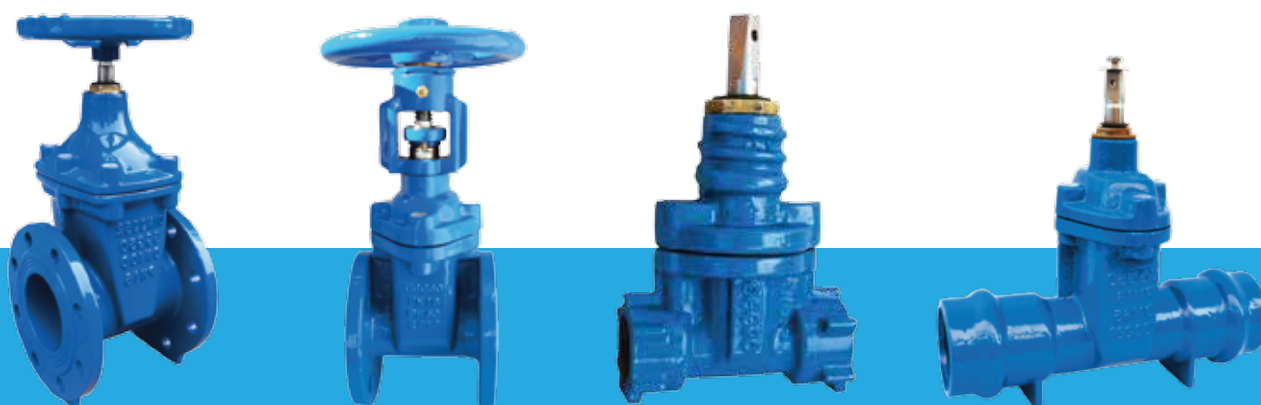
In **DAVINCI VALVES LTD** we look after the very best control and management of available resources in the most rewarding way not only in the clean water or efficient handling of waste water, also and not less in the irrigation application areas. Our goals is offer our best for professionals who wants more.

You may find in our product manufacture program the wide range of water series valves such as gate valves, butterfly valves, air valves, check valves, pressure regulating valves and all the necessary fittings and accesories to complete the water or waste water applications properly and with all savings.

**DAVINCI
VALVES™**

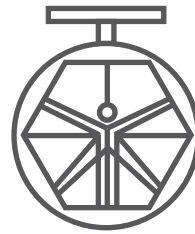


**PRODUCT QT
ASSUREMENT**



"For professionals who wants more"

FIRE
series



DAVINCI
VALVES™

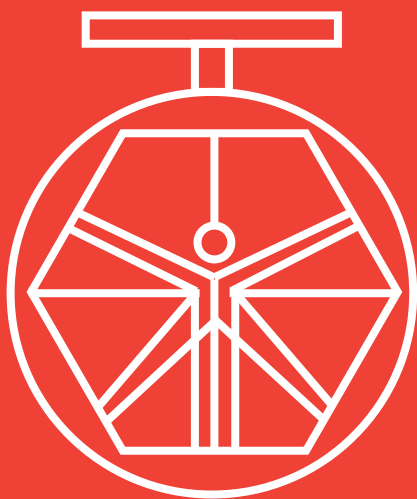


Gate Valves
Butterfly Valves
Swing Check Valves
Fire Hydrants
HVAC



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"Quality that satisfies"

FIRE series



When we talk about controlling fire, here we have to think only one thing that every firemen rely fully on their equipment to function perfectly when needed. That's why the most important thing when it comes to the fire valves catalogue offer the safety and their best quality here is the only priority.

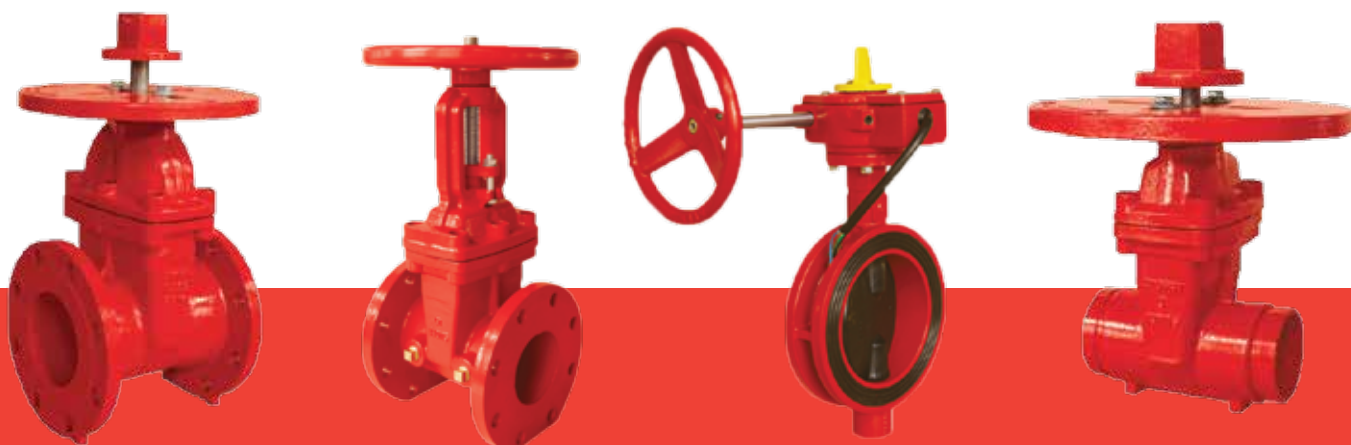
The products have to have easy maintenance and a high longevity, always depending on the customer's needs. Our fire protection manufacture valves program complies with international standards and our extensive internal quality assurance system assures to deliver it.

You may find in our product range the safest gate valves, post and wall indicators, swing check and butterfly valves, with UL/ULC and FM approvals.

DAVINCI
VALVES™



QUALITY
ASSUREMENT



"For professionals who wants more"

INDUSTRY

series



DAVINCI VALVES™



Ball Valves
Gate Valves
Complements
Accessories



CANNING



INDUSTRY



CLIMA

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"Quality that satisfies"

INDUSTRY *series*



Controlling fluids like oil or other corrosive fluids in aggressive media can be a tough thing if you may not count with quality products which fits perfectly for that purpose.

In **DAVINCI VALVES LTD** we look after the very best control and management of all kind of fluids and due to our customer requirements in canning or paper industries, such as from climatization and some specific chemical projects we have developed valves industry product program where you may count with ball valves, gate valves and additional complements and accesories to develop the specific installation as per your needs.

**DAVINCI
VALVES™**



**PRODUCT QT
ASSUREMENT**



"For professionals who wants more"



DAVINCI
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We Have





DAVINCI VALVES™

The materials of which most of **DAVINCI VALVES LTD** are made of depends on heat resistance, the pressure action, the medium flowing through the valve, the size and of course as the most important point, our customer technical specifications.

The wide range of materials the most of the valves bodies of **DAVINCI VALVES LTD** are done fit in three main production sections: stainless steel, steel and cast iron.

STAINLESS STEEL

1.4308 (ASTM A 351 Gr. CF 8)

This steel consists of a chromium-nickel alloy and has good corrosion resistance and can be given mirror finish.

This stainless steel is mainly used for valves exposed to aggressive media or environments.

1.4462 (ASTM A 182 Gr. F 51)

This stainless steel belongs to the group of duplex steels and its micro-structure consists of a mixture of austenitic and ferritic crystal grains. Have high corrosion resistance and excellent strength.

It is frequently used for the manufacture of valves installed in aggressive media or sea water.

1.4571 (ASTM A 182 Gr. 316 Ti)

This type of stainless steel is an austenitic steel and has good weldability and does not need to be tempered.

Also have a very high corrosion resistance.

The areas of application of this stainless steel primarily include the manufacture of welded valves suitable for use in aggressive media.

1.4408 (ASTM A 351 - CF 8 M)

This stainless steel is a cast version of chromium-nickel-molybdenum steels and have excellent oxidation resistance. This stainless steel is primarily used for valves exposed to aggressive media and also in the chemical industry.



STEEL

Structural steel

S 355 J 2 WP / S 355 J 2; ASTM A 242 Type 1 / ASTM A 572 Gr. 50

This steel is used for constructional steelwork and hydraulic steel construction and it is weatherproof, less susceptible to corrosion, has lower sheet/plate thickness, does not need to be pre-heated and has a smaller seam volume.

Forged steel

P 250 GH; ASTM A 105 / ASTM A 668 Class F / ASTM A 516 Gr. 60

What is good about this stainless steel is that it can be used in temperatures of up to 480 °C as

it is heat resistant and have great weldability. This forged steel is used for manufacture of forged valves.

Welded steel

S 235 JR G 2 / S 235 JR + AR; ASTM A 283 Gr. C

Advantage of Welded steel is his high breaking strength and use of this steel fits in the manufacture of welded valves.

H II

P 265 GH; ASTM A 516 Gr. 60

This kind of steel is very heat resistant and it is very durable, e.g. due to heat insulation layers.

The manufacture of pressure welded valves requires use of this steel.

CAST IRON

EN-GJL-250

EN-JL 1040 / GG-25 / ASTM A 48 40 B / EN-JL 1040 cast iron is an iron-carbon-silicon casting alloy whose lamellar graphite gives to the cast iron very good self-lubricating characteristics when it is cut during the manufacture process. What is good about EN-JL 1040 cast iron is its vibration damping, its castability, its machinability, its resistance to the corrosion and its high thermal conductivity.

EN-GJS 400-15

EN-JS 1030 / GGG-40 / ASTM A 536 Gr. 60-40-18 /

EN-JS 1030 cast iron is an iron-carbon-silicon casting alloy in which the graphite is present in the form of spheroids and the properties of this material are similar to steel, such its high castability, strength and toughness.

What is good about EN-JS 1030 cast iron is its high elongation at break and its high strength and toughness.

EN-GJS-400-18-LT

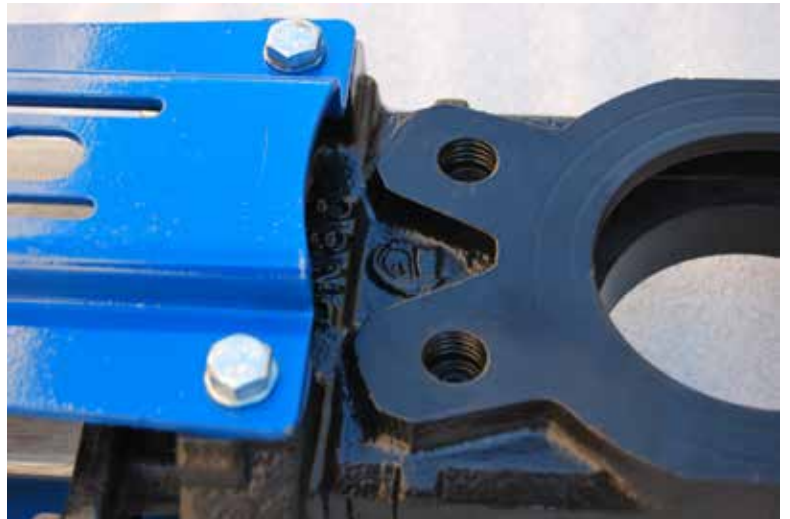
EN-JS 1025 / GGG-40.3 /

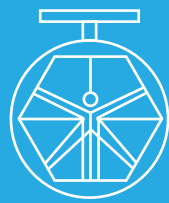
EN-JS 1025 cast iron is an iron-carbon-silicon casting alloy in which the graphite is present in the form of spheroids and the properties of this material are similar to steel, such its high castability, strength and toughness. This cast iron has high elongation at break, also has high impact bending and bar strength. Use of this material can perfectly fit in applications for valves with low temperatures or higher nominal pressures.

EN-GJS-500-7

EN-JS 1050 / GGG-50 / ASTM A 536 Gr. 65-45-12 /

EN-JS 1050 cast iron is an iron-carbon-silicon casting alloy in which the graphite is present in the form of spheroids and have high strength properties, but low elongation at break which may be one of its disadvantages. What is good about EN-JS 1050 cast iron is its high tensile strength. This material in valves production is used very rarely as its considered outdated.





DAVINCI
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We Test





All our valves are submitted to pressure, leak and function tests. And beside that we realize different specific types of testings which assures **DAVINCI VALVES LTD** quality product range like:

Coating Thickness Test

Magnetic inductive test to determine the thickness of coatings or corrosion-inhibiting coating agents, minimum coat thickness >250 m. No bubbles may develop in the coating during this test.

Adhesion Testing

The pull-off test is used to test how well the coating is bonded to the raw material. The minimum adhesion on the core and the moulding sand sides is tested with pulling force of >12N/mm². The test pieces are immersed for seven days in delonised water at 90°C and then dried in an oven for 3 hours. A conditioning phase from 3 to 5 days in normal atmosphere is after allowed to elapse. No blisters may arise during the period immersed in the water bath. The surface of the test piece is degreased and roughened with abrasive paper and after cleaned from dust with oil-free compressed air and re-cleaned.

Impact Resistance Testing

A pendulum which hits the surface with an energy of 5Nm with fixed distance is used for impact testing. After each impact the component is electrically tested as no electrical breakthrough shall occur.

Porosity Testing

The coating is checked for freeness from porosity using a high voltage test device at a defined test voltage. The test is performed using rubber electrode.

The coating must be completely free of penetrating pores to avoid subsequent corrosion of the casting underneath.

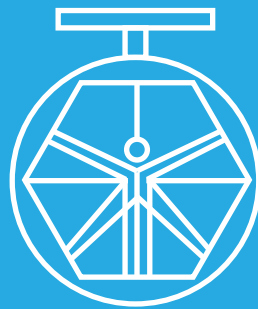
Infiltration Testing

The cathodic infiltration test is corrosion test that is carried out over period of 30 days at 23°C. A defect is created on the coated surface of the test specimen, which is subjected to cathodic polarisation in a sodium chloride solution for the entire test period.

Cross linkage Testing

One drop of methyl isobutyl ketone is put on a horizontal epoxy resin coated surface of the test piece at room temperature. After 30 seconds the test area is wiped with the clean white cloth. It is checked that the test surface has not become neither matt or smeared, and that the cloth remains clean. The test is carried out 24 hours after the coating process.





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