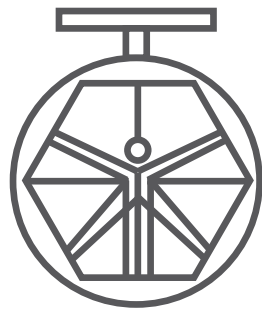
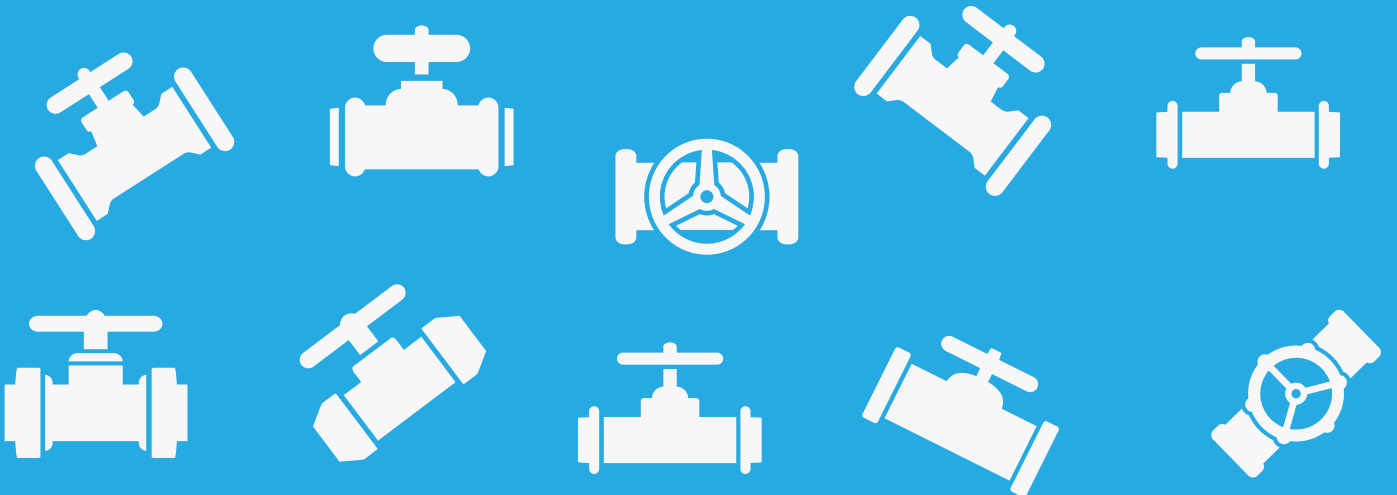
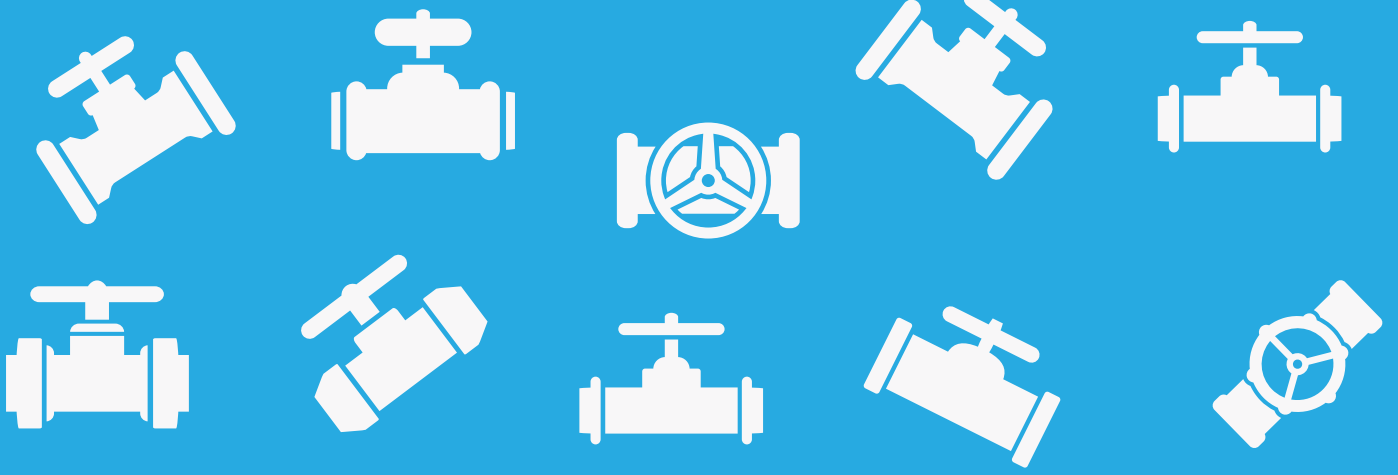


MANUFACTURE
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DAVINCI
VALVES™

"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.

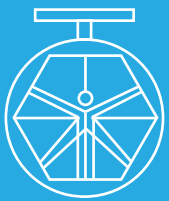
This material has been prepared for general informational purposes only and is not intended to be relied other professional advice.

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.

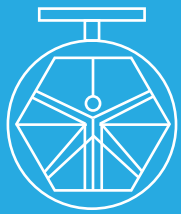
Please contact our Technical Sales Department for detailed advice.

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When we talk about **manufacture of the valves** we talk about production that in its basic way has not change for centuries, what has been innovated, developed and introduced is the know-how of all these processes and all the control assuements which were designed to reach the best qualities in a very competitive price ranges.

The main manufacture process in **DAVINCI VALVES LTD** has the following characteristics, always in dependence on the customer requirements and product specifications needs:

1.Step: We develop the technical drawings of all the parts o f the valve to reach its best design and we do the pre-selection of the main materials for the specific product manufacture.

2.Step: We proceed to manufacture of the male moulds in aluminium plus all of the accesories and parts which shall be produced in the same material as well. It is necessary to add the specific mobile parts to these moulds.

3.Step: Just after, we start the foundry of the different parts in which we can observe following essentials:

- a.) Different metals are melted at temperatures over $1,500^{\circ}$ Celsius Degrees.
- b.) Manufacture of the female moulds is done by pressing the blend of sand and resin mixture on the male moulds. Once the two female moulds are completed, they are coupled in order to have the flask ready.
- c.) Metal is poured in the flask/cast.
- d.) We allow the metal to cool and set minimum between 24 and 48 hours.

4.Step: The item is cleaned through a ball-blasting procedure, until the surface is totally cleared of blurr



5.Step: Once the item is manufactured, it is necessary to mecanize it according to its design. Usually, the mecanization is necessary between the metallic parts in order to ensure its connectivity and tightness, but can be necessary for other applications as well.

6.Step: Other necessary parts, which are not requiring the foundry process, are manufactured, such as rubber joints, vulcanized parts, and large etcetera.

7.Step: Different parts are assembled, in order to have the valve all set.

8.Step: As the last step, we proceed to paint the valve with Epoxy paint. That way the valve is protected of oxidation and metal degradation. This is carried out through pre-heating of the valve and the very next electric charges in order to ensure that the paint sticks properly to the complete valve surface.

9.Step: Hydraulic tests are performed in order to ensure that the valve has not leakings. Afterwards, the Packing List is prepared and the valve sent to you.



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