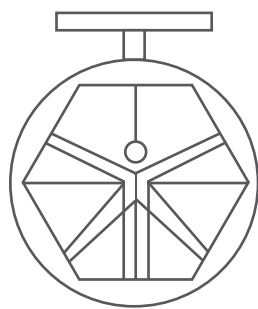


BUSINESS VIEW



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.

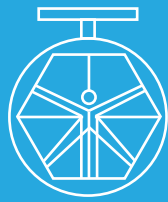
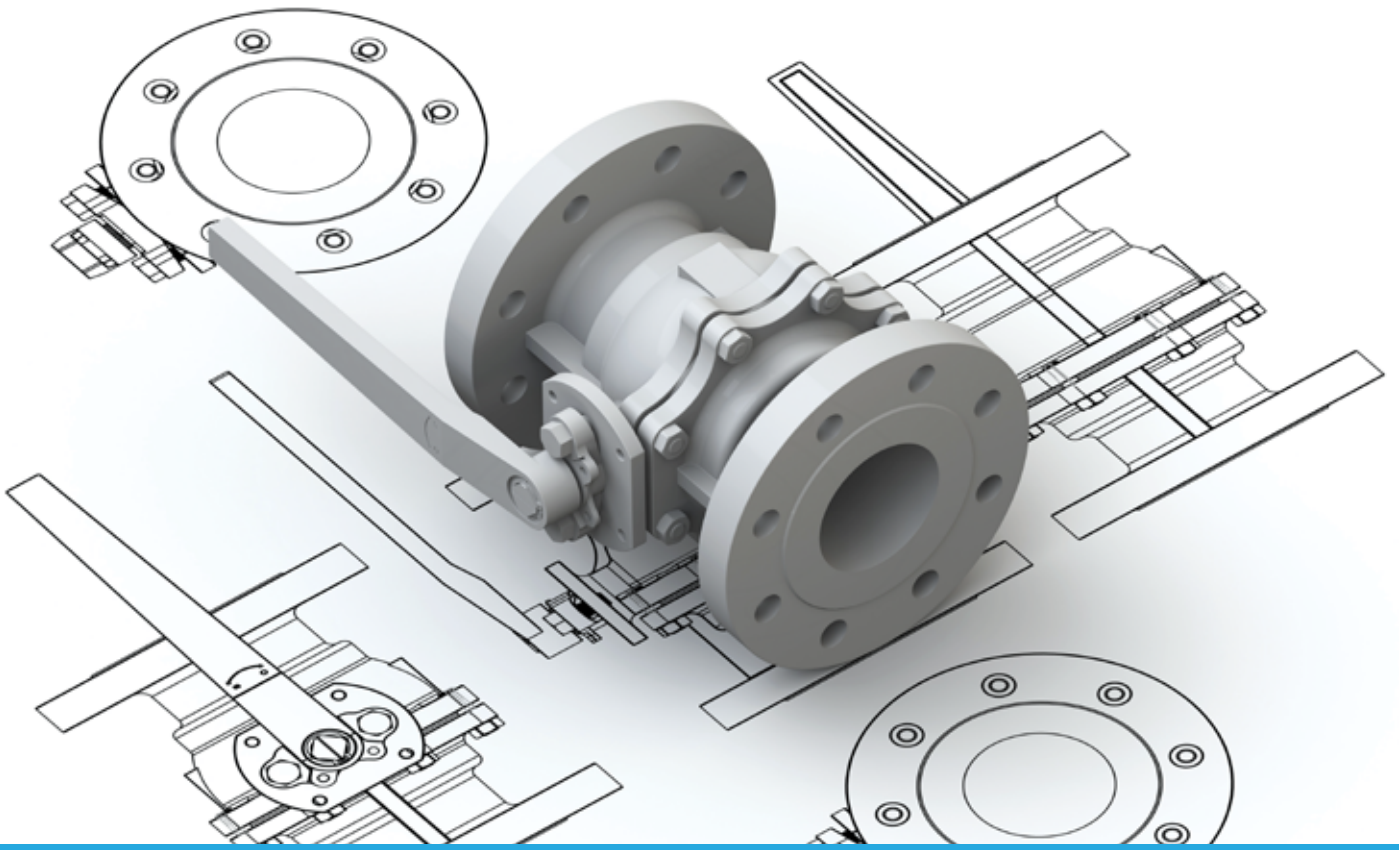
This material has been prepared for general informational purposes only and is not intended to be relied other professional advice.

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.

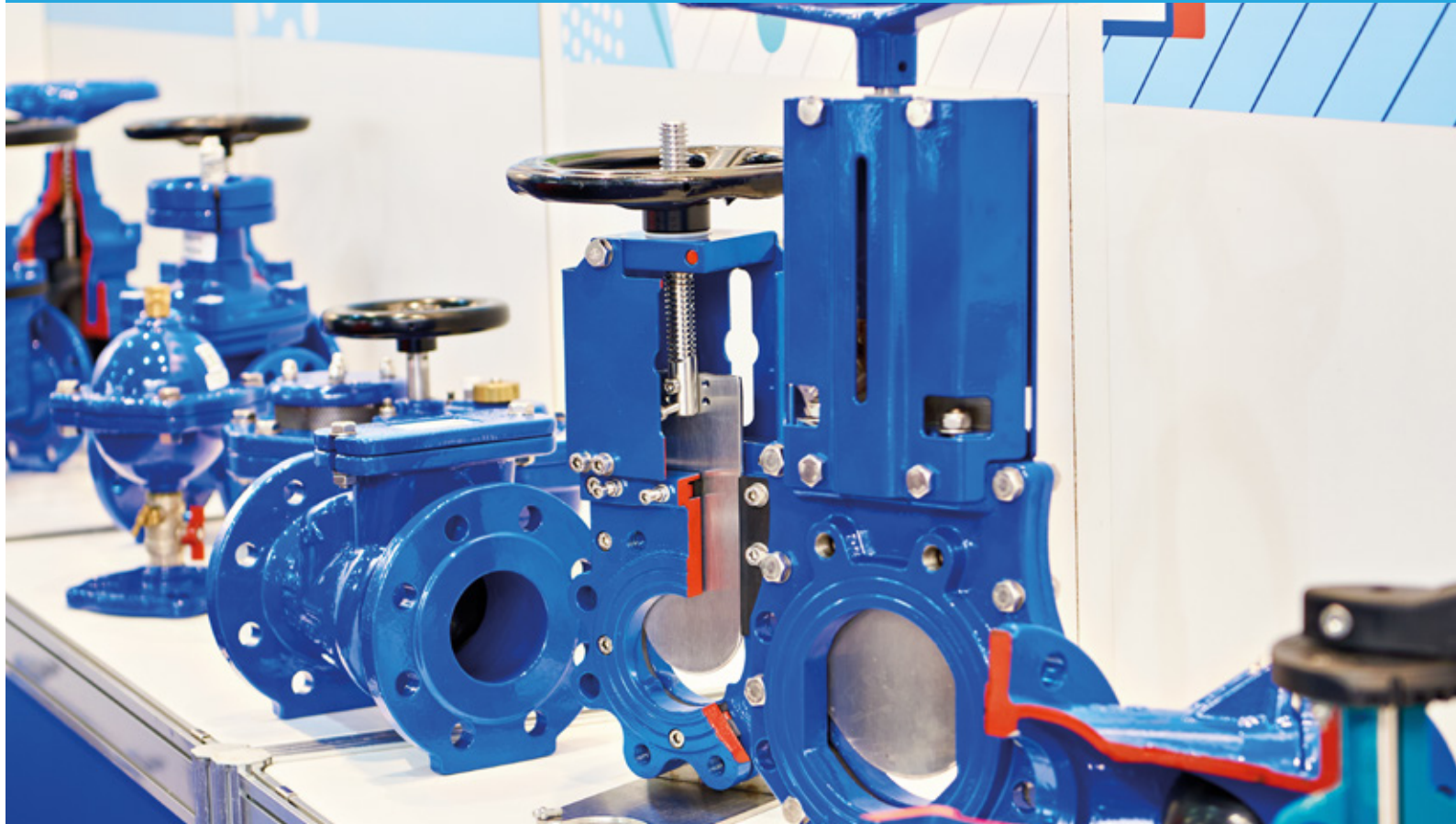
Please contact our Technical Sales Department for detailed advice.

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DAVINCI
VALVES™

We Are





DAVINCI VALVES™

Davinci Valves LTD is one group company with its head office located in the heavy industry province of Chengdu, China with very rich resources of pig iron, steel and other industrial raw materials.

The company is composed of three factories and foundries and one company specialized in the export of products produced by the whole group. We count with a specialized technical department in charge of all production.

Our factories and foundries are: One foundry of Ductile Iron Gate Valves, Second for the ductile iron fitting, flange adaptors, couplings and dismantling joints and the third but not less important, foundry for Butterfly Valves. We can also make Valves and Pipe Complements according to the customer's drawings or samples.

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.

Our products are widely exported to the European countries, Middle East, South East Asia, Africa, South and North America for more than 20 years.

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.





DAVINCI VALVES™



QUALITY ASSUREMENT

DAVINCI VALVES™



PRODUCT QT ASSUREMENT

DAVINCI VALVES™



COMPANY QT ASSUREMENT



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.



For professionals who wants more.

WORLDWIDE VALVES EVENTS

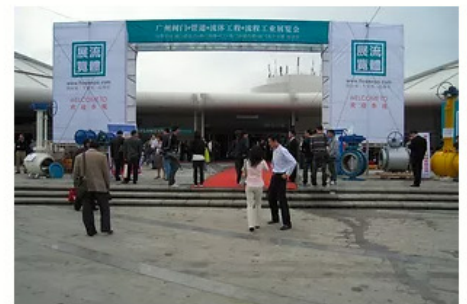
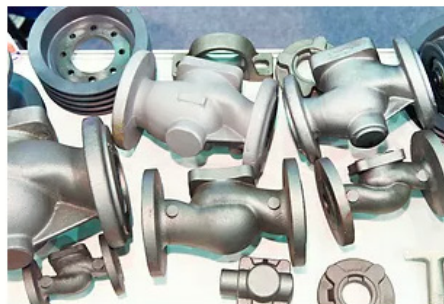
DAVINCI VALVES is proactive in attending important events and international fairs associated with valves all over the world. You may always get us in touch by E-mail: valves@davincivalves.com or we can have meetings in person at events or fairs, such as:

AQUATECH (Shanghai, China)
FLOWTECH (Shanghai, China)

VALVE WORLD EXPO (Düsseldorf, Germany)
AQUATECH (Amsterdam, Holland)

WIE TEC (Shanghai, China)
IFAT (München, Germany)

POLLUTEC (Lyon, France)
VALVE WORLD EXPO (Shanghai, China)





DAVINCI
VALVES™

How



Foundry



Moulds



Ball Blasting



Mecanization



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 assurements 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 caracteristics, always in depen- dence on the customer requirements and product specifications needs:

1.Step: We develop the technical drawings of all the parts o f the valve to each 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 tem- peratures over 1, 500° 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 minimmum between 24 and 48 hours.

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

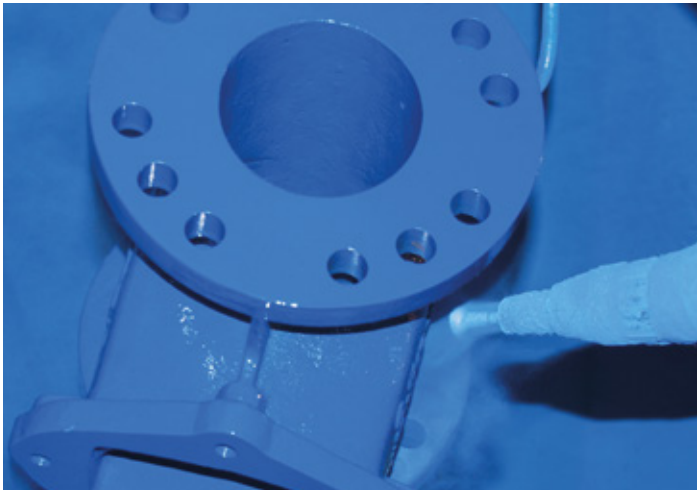
Vulcanization



Assembling



Painting



Packing



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 prepared for shipment.

All safely packed and send to your warehouse. Just the way proffesionals, like you, needs. Because we produce for proffesionals who needs more... more of confidence, safety and quality.



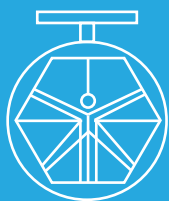


Each valve is unique and requires comprehensive solutions to meet customers' expectations when it comes to configuration, installation, and final application.

We do NOT just simply select the valves and drop them to the customers. Instead, we listen to our customers about what they need, provide our solutions after evaluation, and then we decide what to offer to our customers for their benefits.

Wherever and whenever valves are needed, DAVINCI VALVES will always have its suitable valves, fittings and accessories in position for you. You deserve a partner who can meet all your requirements for a win-win cooperation in the long run.





DAVINCI
VALVES™

Quality



All our valves are submitted to working pressure, leakage and function tests. Besides those, we also provide different specific types of testing that are committed to the assurance of **DAVINCI VALVES'** product qualities.

Coating Thickness Testing

Magnetic induction method is used to measure the thickness of coatings or corrosion-inhibiting coating agents. This enables non-destructive testing of coat thickness or coat agents. The minimum coat thickness of our products (if any) is 250 µm. No bubbles shall develop in the coating during this test.

Paint Adhesion Testing

The Pull-off test is used to test how well the coating is applied to the substrates. The minimum adhesion on the core and the molding sand sides is tested with a pulling force of >12N/mm². The testing samples are immersed for in deionized water at 90°C for seven days and then dried in an oven for 3 hours. A conditioning phase from 3 to 5 days in normal atmosphere is then allowed to elapse. No bubbles may arise during the period when immersed in the water bath. The surface of the testing sample is degreased and roughened with abrasive paper and then recleaned after cleaned from dust with oil-free compressed air.

Impact Resistance Testing

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

Porosity Testing

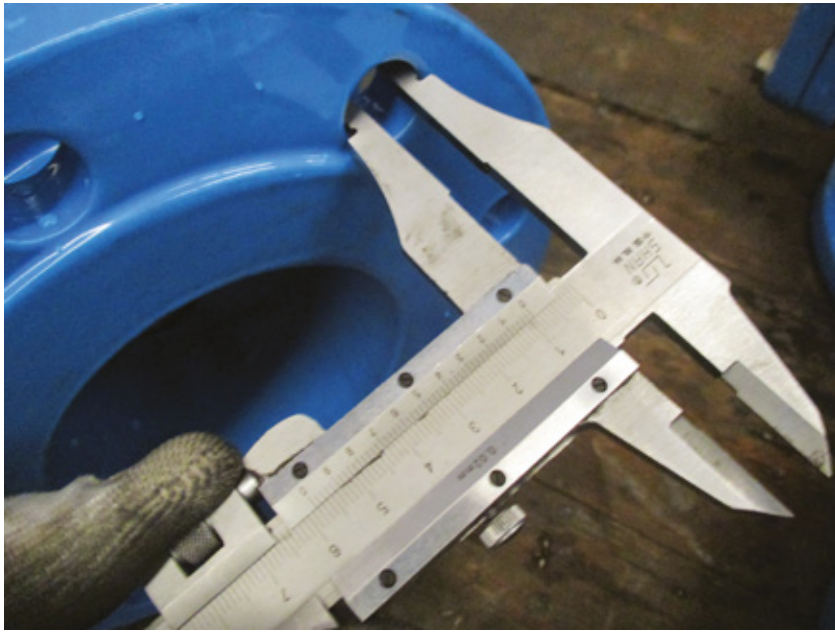
The coating is checked for its porosity by using a high voltage testing device at a defined test voltage. The test is performed using rubber electrode. The coating must be completely free of penetrating pores so as to avoid subsequent corrosion of the casting underneath.

Infiltration Testing

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

Cross linkage Testing

At room temperature, drop a drop of methyl isobutyl ketone on the surface of the horizontal epoxy-coated sample. After 30 seconds, wipe the test area with a clean white cloth. Check that the test surface has not become neither dull nor stained, and that the cloth is kept clean. The test is carried out 24 hours after the coating process.



If you need specific certification for 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 products, this is the absolute guaranteed service of DAVINCI VALVES, which ensures that the order sent to you is the one contracted.

IF YOU NEED VALVES QUALITY INSPECTION SERVICES? CHOOSE DAVINCI VALVES ASSURED ORDERS THROUGH ADDITIONAL QUALITY CONTROL MANAGEMENT:

All the parameters demanded by our clients are documented in details before shipping.




Photo Report: during the inspection, photos will be taken within the legal scope and respecting industrial secrets, which will be delivered to you on the same day.

Video Report: likewise, a short video or several ones will be made so you can check the test results on your own.

Audit Report: you may choose to receive a full audit report about the quality control verification written in English or Spanish before shipment or afterwards.

Table 1: Sample Size Table

Lot Size Range	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1-10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30



TRUSTED PARTNER

INSPECTION STANDARDS: ANSI/ASQC Z1.4 / MIL-STD-105E / BS 6001 / ISO 9000 / ISO 2859 / AQL 0.65

For more information, please contact our quality technical department:
valves@da VinciValves.com
da VinciValves.com

Table 2: Sample Size Table for Normal Inspection

Sample Size Code	Acceptance Level 1 (AQL) for Normal Inspection										Acceptance Level 2 (AQL) for Normal Inspection																			
	0.10	0.15	0.20	0.25	0.30	0.40	0.50	0.60	0.70	0.80	0.10	0.15	0.20	0.25	0.30	0.40	0.50	0.60	0.70	0.80										
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

EXAMPLE: □ Normal inspection is in use, AQL is 0.10, and the batch size is 1000; and the inspection level is Level II. What is the sampling size?
 A: Set the batch size (201 to 1000) in the upper window; then use arrow to the inspection level (Level II) to find the Code Letter L; then set the AQL window (0.10) looking under Code Letter L; in normal this find a sample size of 200. An acceptance level of 10 defects and a rejection level of 11 defects.



DAVINCI VALVES LTD ensures each delivery with respectfull certifications in different kind of fields, such as POTABLE WATER MARKET with WRAS Approved Valves or ACS EN 1074-2. In the FIRE SYSTEMS do not hesitate to ask for you UL/FM certificates approvals. We'll be pleased to offer you all the information and certification required. Just as your technical department requires for the project in hand.





DAVINCI
VALVES™

We Pack



Supplying also means providing flexible deliveries:

Sea Transport (FCL or LCL), Air Transport and Express (UPS, DHL, Fedex).

Always with trustfull forwarders.

We supply valves to Europe, North and Latin America, Middle East, Africa and everywhere you require.



We ensure that your shipment will be carried out under anticipated conditions, having people keep track of your shipments carried by trusted forwarders, who cooperate with us since the day one.

Insurance Contract:

We help you estimate insurance costs and offer you the contract that suits for you.

Documentation:

We take care of preparing for and drafting all import documents such as Certificate of Origin, Bill of Lading, Packing List, and other necessary documents.

Duty Calculation:

We look after suitable duties for the product of your interest and advise you on different legal procedures for the importation in the country of destination.

Working Together:

Integrating your commodities from different suppliers and/ or places. With possibilities that your required products are manufactured different suppliers, we coordinate and unify the products from different suppliers and/ or places, avoiding unnecessary expenses that may be caused by multi shipments.

Customization and modification of packaging:

We provide customization of your company or product trademarks according to your requirements

All DAVINCI valves, pipes complements verified:







DAVINCI
VALVES™

Where





**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 worldwide, 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.

Process and Potable Water



Irrigation



WasteWater



Mining



Fire Systems



Industry



Cellulose



Air Distribution



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



DAVINCI
VALVES™

What





GATE VALVES



SERIES
RESILIENT SEAT
GATE VALVES 200A

In Ductile Iron GJS500.
Vulcanize wedge EPDM WRAS
Epoxy paint FBE Min 250 Mic
Working pressure 1.0Mpa 1.6Mpa
FF EN558 S14/15 DIN3202 F4/F5



SERIES
RESILIENT SEAT
GATE VALVES 200A

In Ductile Iron GJS500(NP10/16)
WCB (NP25/40/63)
Epoxy paint 80 Mic / FBE 250 Mic
Work press.1.0/1.6/2.5/4.0/6.3Mpa
FF EN558 S14/15 DIN3202 F4/F5



SERIES
RESILIENT SEAT
GATE VALVE 200A

In Ductile Iron GJS500.
Vulcanize wedge EPDM
Epoxy paint FBE Min 250 Mic
Work press. 1.0/1.6Mpa
Extr. flanged ends DIN NP10/16



SERIES
RESILIENT SEAT
GATE VALVES 201A/51

Made of Ductile Iron GJS500
Non-rising Stem. UL-FM Certificate
PN10/16 from DN50 to DN300
Construction EN558-1 series 3



SERIES
RESILIENT SEAT
GATE VALVES 240A

In Ductile Iron GJS500.
Vulcanize wedge EPDM WRAS
Epoxy FBE Min 250 Mic WRAS
Work. press. 1.0Mpa 1.6Mpa



SERIES
RESILIENT SEAT
GATE VALVES 220A

In Ductile Iron GJS500.
Vulcanize wedge EPDM WRAS
Epoxy paint FBE Min 250 WRAS
Working pressure 1.0Mpa 1.6Mpa



SERIES
RESILIENT SEAT
GATE VALVES 201A/50

Made of Ductile Iron GJS500
Rising Stem. UL-FM Certificate
PN10/16 from DN50-DN300
Construction EN558-1 series 3



SERIES
RESILIENT SEAT
GATE VALVES 200A

Construction in SS CF8M
Metal to metal seat
Working pressure 1.0/1.6Mpa
FF EN 558 Serie 14/15
(DIN 3202 F4/F5)

BUTTERFLY VALVES



SERIES
BUTTERFLY VALVES
WAFER TYPE 100B

In Ductile iron GJS450
 Disc duct. iron GJS450 / SS CF8M
 Working pressure 1.0Mpa 1.6Mpa
 Face to face EN 558-1 series 20
 Epoxy paint FBE Min 250 Mic



SERIES
BUTTERFLY VALVES
LUG TYPE 110A

In Ductile iron GJS450
 Disc in ductile iron GJS450 / SS CF8M
 Working pressure 1.0Mpa 1.6Mpa
 Face to face EN 558-1 series 20
 Epoxy paint FBE Min 250 Mic



SERIES
BUTTERFLY VALVES
GROOVED TYPE 140A

In Ductile Iron GJS450
 Disc Dúctil iron GJS450 Vulcanize
 Working pressure 1.0Mpa 1.6Mpa
 Tube connection acc. ANSI B3610
 ISO 4200 DIN2448 BS 1387 BS 3600



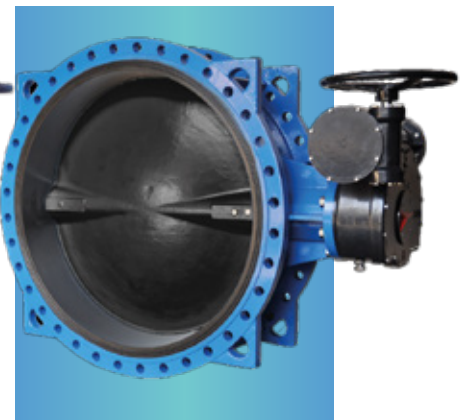
SERIES
BUTTERFLY VALVES
U TYPE SERIE 20 160A

In Ductile iron GJS450
 Disc in ductile iron GJS450
 Seat cartridge type EPDM
 Working pressure 1.0Mpa 1.6Mpa
 Face to face EN 558-1 series 20



SERIES
BUTTERFLY VALVES
DOUBLE ECCENTRIC 130A

In Ductile iron GJS450
 Working pressure 1.0/1.6/2.5Mpa
 Flanged ends DIN NP 10/16/25/40
 Face to face DIN 3202 F-4/BS5155
 Epoxy paint FBE Min 250 Mic



SERIES
BUTTERFLY VALVES
FLANGE NR13

Made of Ductile Iron GJS400&GJS500
 Construction DIN 3202 F4/BS5155
 PN10/16/25/40 from DN 200
 to DN2000
 Flanged Ends DIN PN 10/16/25/40

CHECK VALVES



SERIES
BALL CHECK VALVES 400C

In Ductile Iron GJS500.
Working pressure 1.0Mpa 1.6Mpa
Face to face DIN 3202 F-6.
Epoxy paint FBE Min 250 Mi



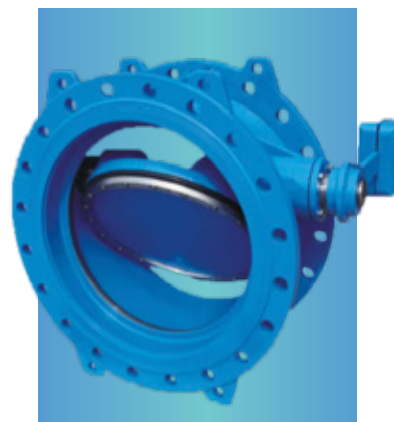
SERIES
SWING CHECK VALVES 410

In Ductile Iron GJS450
Seat Metal to Metal Brass
Working pressure 1.0Mpa 1.6Mpa
Face to face DIN 3202 F6
Epoxy paint FBE Min 250 Mic



SERIES
FLAP VALVES 470

In Ductile Iron GJS500
Obturator Ductile Iron GJS500
Working pressure 1.0/1.6Mpa
Epoxy paint FBE Min 250 Mic



SERIES
TILTING BUTTERFLY CHECK VALVES 450

In ductile iron GJS450
Work. pres. 1.0/1.6/2.5/4.0Mpa
FF DIN 3202 F-4/BS5155
Opt: Lever&weight/Hydr. Dumper
Epoxy paint FBE Min 250 Mic



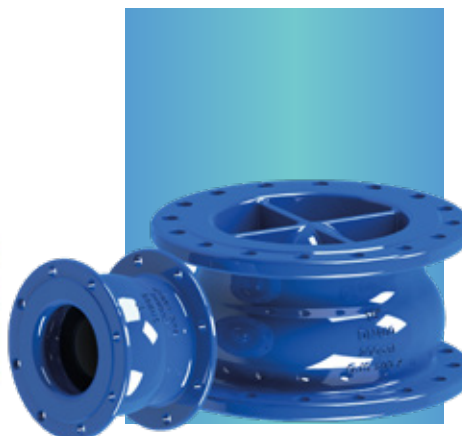
SERIES
DUAL PLATE CHECK VALVES 420

In cast iron GJL250.
Plates in Ductil Iron SS AISI316 (CF8M)
Wafer type Flanged ends NP10/16
Working pressure 1.0Mpa 1.6Mpa
Face to face EN 558-1 Serie 16



SERIES
BALL CHECK VALVES 400

In Ductile Iron GJS500
Ball with metallic core vulc. NBR
Working pressure 1.0Mpa
Threaded ends DIN259(GAS/NPT)
Epoxy paint FBE Min 250 Mic



SERIES
NOZZLE CHECK VALVES 460

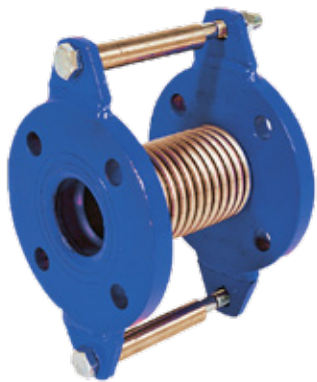
In Ductile Iron GJS500
Obturator EPDM
Working pressure 1.0/1.6/2.5Mpa
Epoxy paint FBE Min 250 Mic
FF Acc. to DIN 3202 F4



SERIES
SWING CHECK VALVES THREAD END 413

Material construction in SS316
Obturator SS316
Working pressure PN16
Thread end GAS/NPT

COMPLEMENTS



SERIES
METALLIC BELLOWS 310

Body and waves AISI304
Flanged ends CARbol Steel WCB
Working pressure 1.0Mpa 1.6Mpa
Flanges DIN PN10/16
Acrylic paint 100 Mic



SERIES
RUBBER EXPANSION JOINTS 300A

Single sphere body EPDM/NBR
Internal reinforcement Nylon Steel rings
Flanged press Steel Q235 Galvanize
Working pressure 1.0Mpa 1.6Mpa
Flanged Ends DIN2632 PN10/16



SERIES
RUBBER EXPANSION JOINTS THRD. END 300A

Double sphere body EPDM/NBR
Intern. reforc. Nylon steel rings
Threaded ends Cast iron Galvanize
Working pressure 1.0Mpa 1.6Mpa
Threaded ends DIN259 GAS/NPT



SERIES
UNIVERSAL SADDLES 602

in ductile iron GJS450
Work. press 1.0/1.6Mpa
Epoxy FBE Min 250 Mic
Standard EN545 Rubber PDM/NBR
Bands AISI304 with EPDM cover



SERIES
DISMANTLING JOINTS WITH TIE RODS 330

Material construction Dúctil iron GJS500.
Bolts&nuts&tie rods 4,8/8,8/A2/A4
NP 10/16/25/40 from ND 40 up to ND 2200.
Flanged ends DIN NP 10/16/25/40.



SERIES
Y STRAINERS 320

In Cast iron GJL250
Screen S.steel AISI 304
Working pressure 1.0Mpa 1.6Mpa
FF acc. to DIN 3202 F1
Paint Epoxy FBE Min 250 Mic



SERIES
FLANGE ADAPTORS FOR PE/PVC/HDPE PIPE 621A

In ductile iron GJS450
Working pressure 1.0Mpa 1.6Mpa
Epoxy paint FBE Min 250 Mic
Standard comply with EN545
Rings in Brass. Rubber parts EPDM/NBR



SERIES
UNIVERSAL FLANGE ADAPTORS 620

In ductile iron GJS450
Working pressure 1.0Mpa 1.6Mpa
Epoxy paint FBE Min 250 Mic
Standard comply with EN545
Rubber parts EPDM/NBR

AUTOMATIC



SERIES **AUTOMATIC PRESSURE** **REDUCING VALVES 511**

In Ductile Iron GJS500.
Design according UNE EN-1074-5.
Working pressure 1.0/1.6/2.5Mpa
Epoxy paint FBE Min 250 Mic
FF DIN3202 F1



SERIES **REMOTE CONTROL** **FLOAT VALVE 510**

In Ductile Iron GJS500.
Design according UNE EN-1074-5.
Working pressure 1.0/1.6/2.5Mpa
Epoxy paint FBE Min 250 Mic
Face to face DIN3202 F1



SERIES **FLOW CONTROL** **VALVES 515**

In Ductile Iron GJS500.
Design according UNE EN-1074-5.
Working pressure 1.0/1.6/2.5Mpa
Epoxy paint FBE Min 250 Mic
Face to face DIN3202 F1



SERIES **KNIFE GATE** **VALVES 800**

Made of Ductile Iron GJS500
Construction UNE EN-1074-5
PN10/16/25 from DN50
to DN400, Replaceable Seat
Multiple Applications



SERIES **TRIPLE FUNCTION** **AIR RELIEF VALVES 500A**

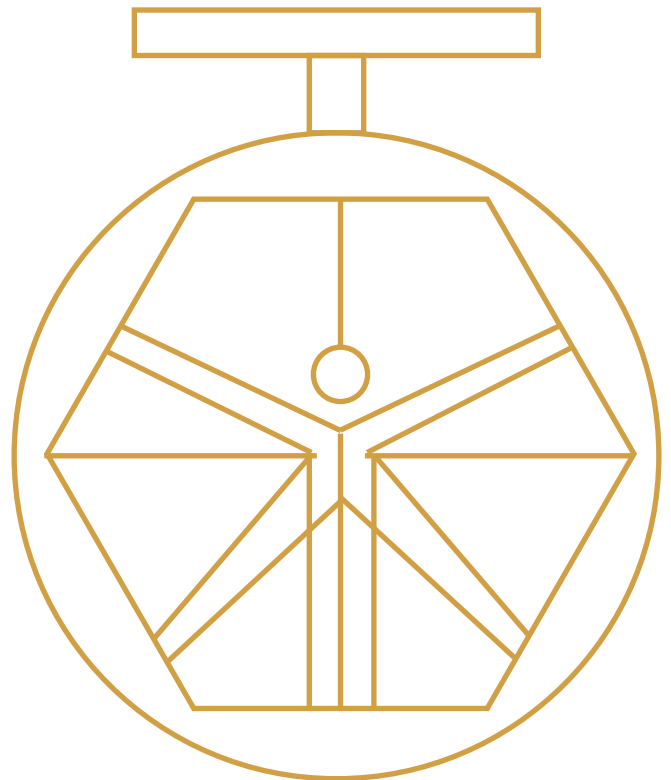
In Ductile Iron GJS450
Internal float In SS 304
Working pressure 1.0/1.6/2.5Mpa
Epoxy paint FBE Min 250 Mic



SERIES **BALL VALVES 743/744**

Made of Grey Iron GJL250
Discs made of Ductile Iron
GJS400 & St. Steel AISI 316
PN10/16 from DN40 to DN600
Face to face distance EN558-1 s.16

For professionals who wants more.



SERIES **PERSONALIZED** **VALVES**

Measures / Materials /
Complements as your Project rq.
Do not hesitate to contact our
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valves@davincivalves.com

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Contact