

CUSTOM-MADE  
WATERWORKS VALVES  
SINCE 1967

 **NENCINI**

# The Company

Initially producing air valves for water pipelines in pressure, we expanded our production to include non-return valves for pumping stations and hydraulic systems. Then we started producing large energy-dissipating valves for hydraulic power plants and discharge and butterfly valves for dams. Our manufacturing knowledge and expertise is reinforced by the deep understanding of cavitation and vibration phenomena. This engineering know-how led us to the design and manufacture of more durable and efficient valves. With increasing global demands for special applications, Nencini plays an important role in the supply of customized hydraulic valves currently installed in many different water utility systems around the world.

**Established since 1967, Nencini brings over 45 years of design and manufacturing experience to accomplish any job efficiently and effectively.**



Needle valve - 1972



Needle valve - 2015

## The team

The success of Nencini would not have been possible without the dedications of all our team members. We are especially proud of our technical and production department consisting of highly qualified engineers, managers and skilled workers with high integrity. Our strength lies in the engineering know-how, in working with European materials while putting great emphasize on quality.

## The manufacturing plant

- office area of 450 m<sup>2</sup>
- workshop area of 3100 m<sup>2</sup>

The workshop is equipped with vertical lathes, drilling and boring machines, welding machines with submerged arc and rotating plate, to machine components and parts up to 5000 mm (200"). The testing facility is one of the most essential and interesting area. Some common activities carried out in this facility include: the Dye penetrant inspection (DPI), the Magnetic Particle Examination (MT), the ultrasonic testing (UT) and the X-ray testing. Every valve undergoes final workshop hydrostatic tests as per International Standards.

### Quality System

The company is ISO 9001 certified



### Occupational Health and Safety Management System

The company is OHSAS 18001 certified



Welding on a non-return axial valve's body in our workshop

Office and workshop in Colle di Val d'Elsa (SI) - Italy



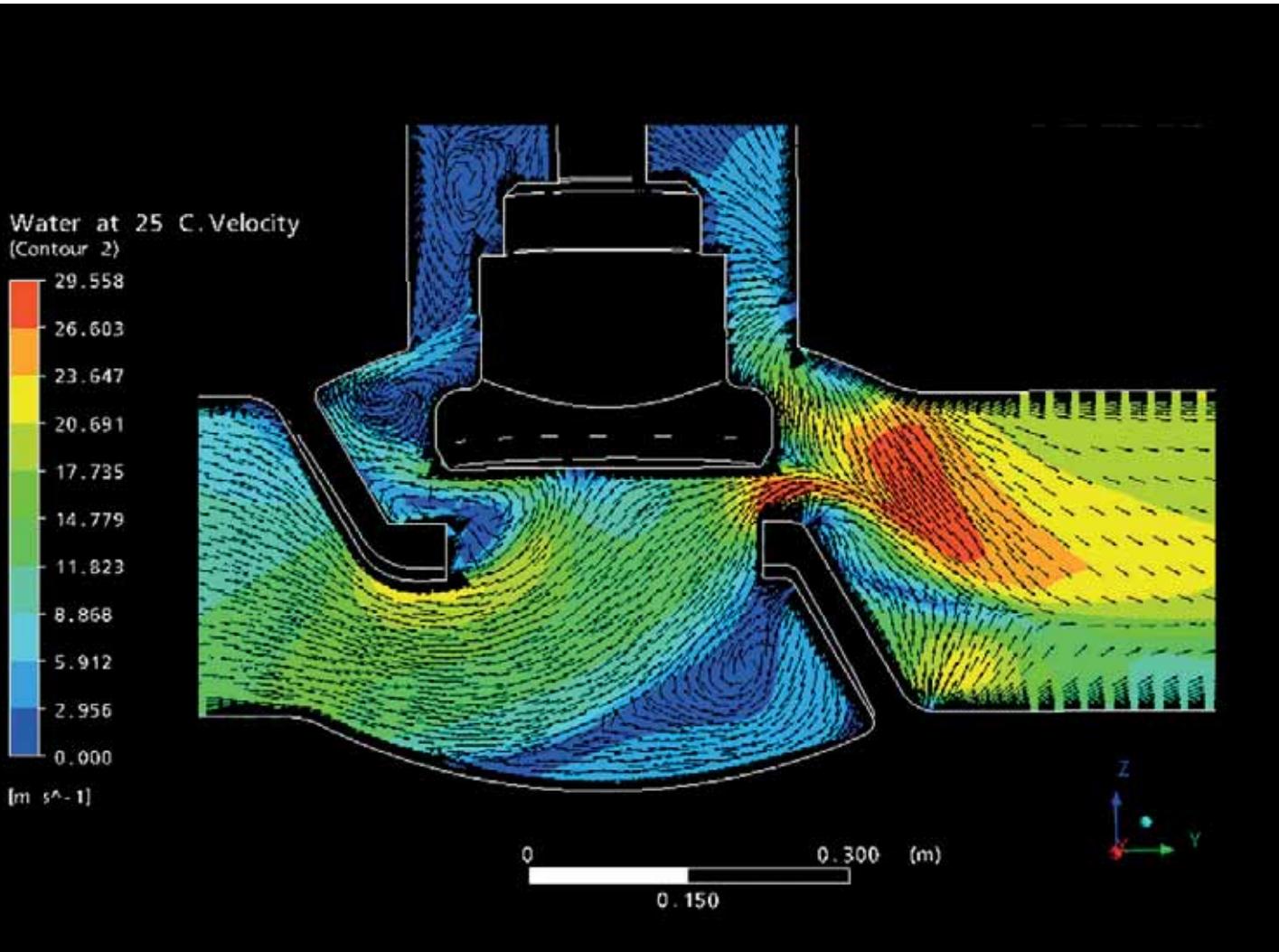
## Our experience and know-how

Research and Development is an important part of the company strategy and we pride ourselves in our ability to provide you with modern and effective design solutions. Depending on your needs, our engineers will work with you to design the right valves for your specific situation. We collaborate and exchange knowledge with the most important Italian and leading University Hydraulic laboratories all over the world. Ensuring absolute quality to our products, we carry out tests on all our valves, both installed on site and on prototypes.

## Design methods

The FEM (Finite Element method) is used to analyse the strength of the valve and of its components, according to the ASME code. The CFD (Computational Fluid Dynamics) is used to check any cavitation phenomenon and the hydraulic performances of the valve, on each opening position. An acoustic simulation software is used to study the propagation of vibration and sound in the pipes, with reference to Standard EN 60534-8-4.

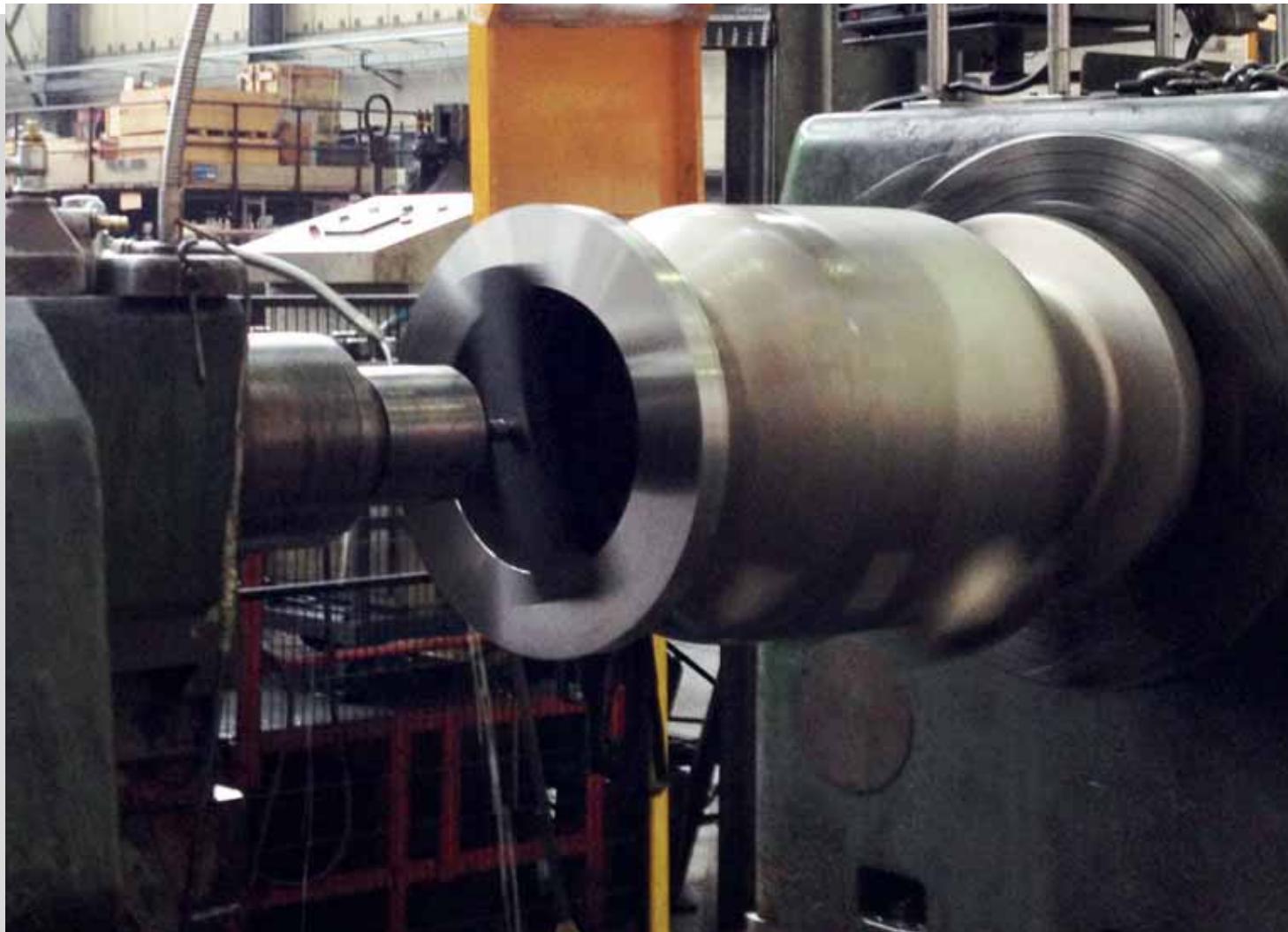
**We design and manufacture our valves according to the ISO, DIN, ASME or AWWA standards.**



CFD simulation

## Main materials and coatings

- ductile cast iron
- cast carbon steel
- aluminium bronze
- stainless steel (standard types, duplex and super duplex)
- structural steel
- special alloys (Inconel, Monel, etc.)
- standard painting applications, FBE lining, Halar lining  
(in compliance with worldwide water authorities for potable, sea or raw water)
- other on demand.



Flanges under machining on parallel lathe in our workshop

## Actuation and control units

Depending on the technical needs of the project, together with our valves we supply several types of actuators:

- manual / gearbox
- electric actuators / gearbox
- servomotors, with or without counterweight
- hydraulic servomotors
- other on demand

In addition to the above, we design and supply the full control system, composing of an electric control panel and when required, a PLC.

Great importance is given to the process Control Philosophy of our customers.

Every requirement and constraint are taken into consideration in order to design a system that fully complies with the specifications.



Hydraulic power unit, control panel and set of accumulators



Actuation by counterweight



Electric actuation  
(plus auxiliary handwheel)



Twin double effect servomotors



Manual actuation

## Production range

- air valves: air release valves, vacuum breakers, combination air valves
- pressure/flow control valves: needle valves, double flanged sleeve valves, multijet rotative valves
- discharge valves: fixed cone valves, submerged vertical sleeve valves
- on/off valves: butterfly valves, ball and spherical valves, gates, penstock and stoplogs
- check valves: non-return axial valves
- other on demand.

## Applications

- hydraulic power plants: safety butterfly valves, ball and spherical valves, submerged vertical sleeve valves, fixed cone valves, gates, penstocks and stoplogs
- network plants: maintenance and emergency butterfly valves, pressure/flow control valves, air valves
- pumping stations: non-return axial valves, pressure/flow control valves.

## Our customers

- engineering companies
- construction companies
- general contractors
- designers of water mains
- designers of hydraulic turbines
- pump manufacturers, etc.

Needle valve  
DN 3000 PN 10  
Italy



Butterfly valve  
DN 3550 PN 6  
Morocco

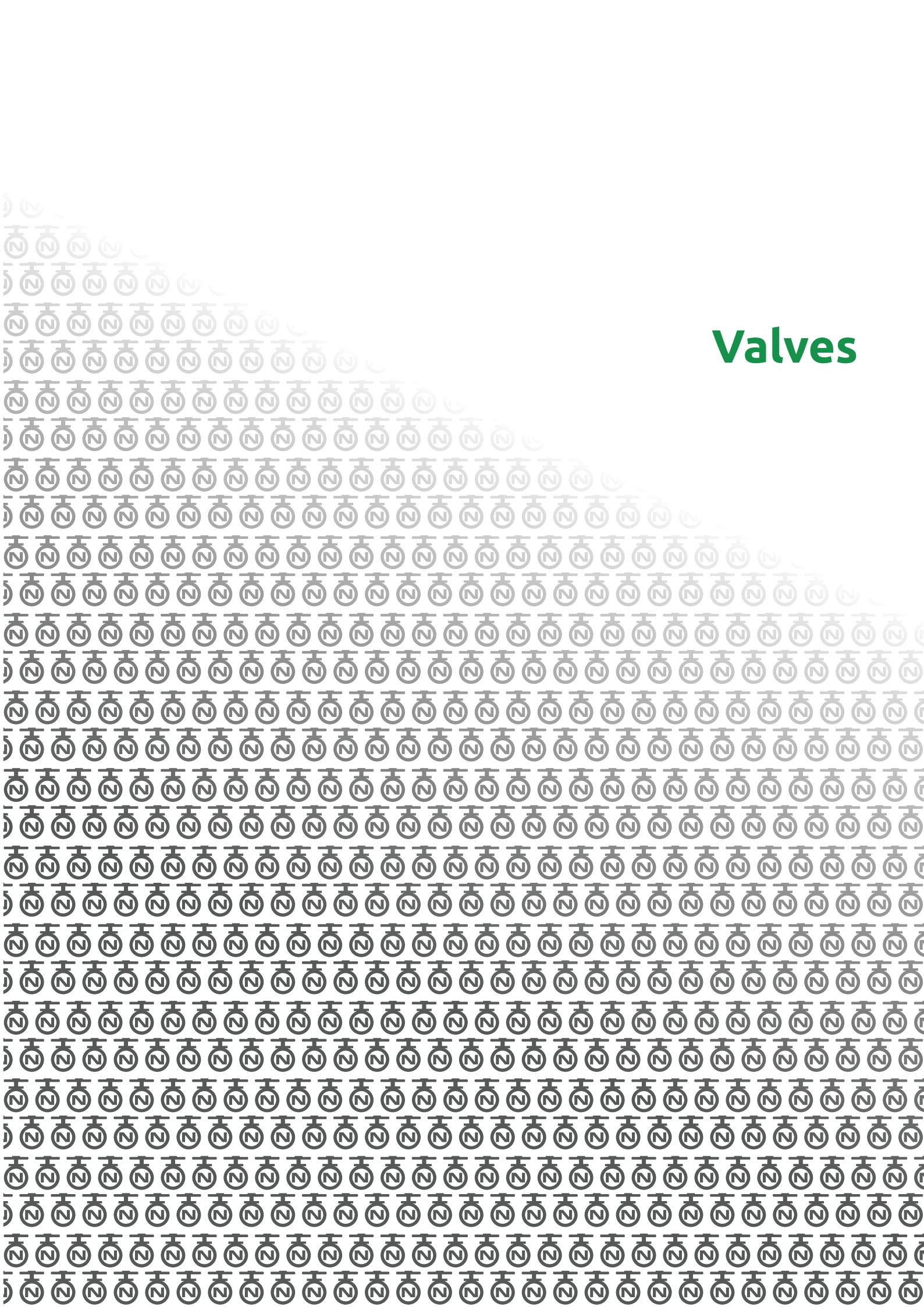


Butterfly valve  
DN 3350 - PN 8,4  
Canada



We take pride in making good, efficient and reliable valves. That's our job, we like it and we know how to do it. Because we treasure our own experience, we develop, and progress to offer you the peace of mind. Trust that your project will be analysed carefully, and that we will come back to you with the best proposal in term of efficiency, price/quality ratio, easy operation and maintenance.

**A company who cares.  
Results guaranteed when you choose us.**



# Valves



Single air release valve (Al-Br)  
DN 150 ASME/ANSI 150 - Saudi Arabia

## Air Valves

We engineer and produce several kinds of air valves, based on different operating principles:

- air release valves
- vacuum breakers
- combination air valves.

### Functions:

- draw out the air when the main pipe is filling
- allow air into the pipe, breaking the vacuum forming while the pipe is emptying
- release the air normally trapped into the water during operation
- avoid damaging surges and water hammer (valves with anti slam device).

Available for raw, potable, sea and sewage water.

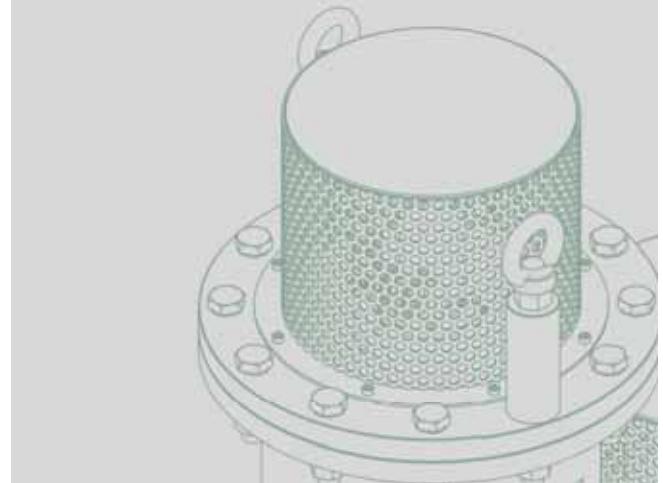
**Customization on demand.**

## Technical Data

<b>Size</b>	DN 25 <> 800 DN 1" <> 32"
<b>Pressure range</b>	PN 10 <> 100 ASME/ANSI 150 <> 600
<b>Actuation</b>	Self-actuated valves



Combination air valves (Al-Br)  
DN 200 ASME/ANSI 150  
Saudi Arabia



Vacuum breakers (Al-Br)  
DN 300 ASME/ANSI 150  
Saudi Arabia



## Needle Valves

Pressure / flow control valves.

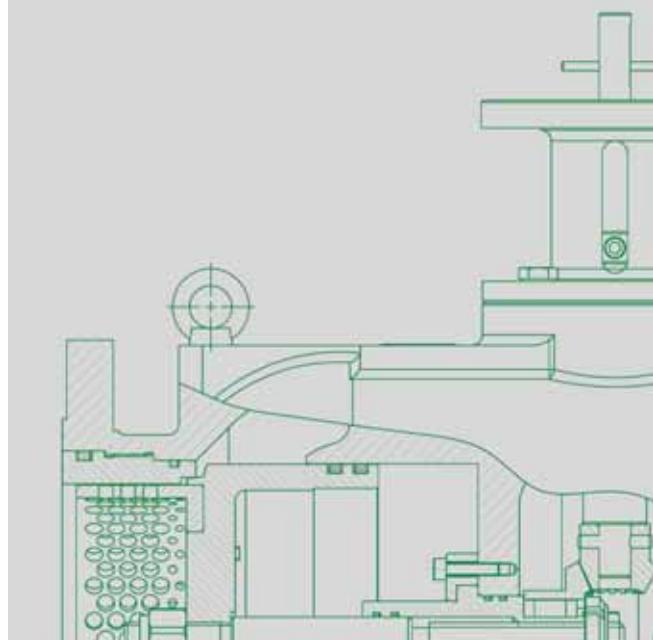
### Main features:

- significant reduction in turbulence, vibration and noise
- fine regulation of the entire range of flow, made possible by the customized trim
- high precision in the flow control
- high rangeability.

### Applications:

- pressure control in pumping stations
- intake and distribution waterworks
- irrigation and treatment plants
- tank flow control
- network flow control.

### Customization on demand.



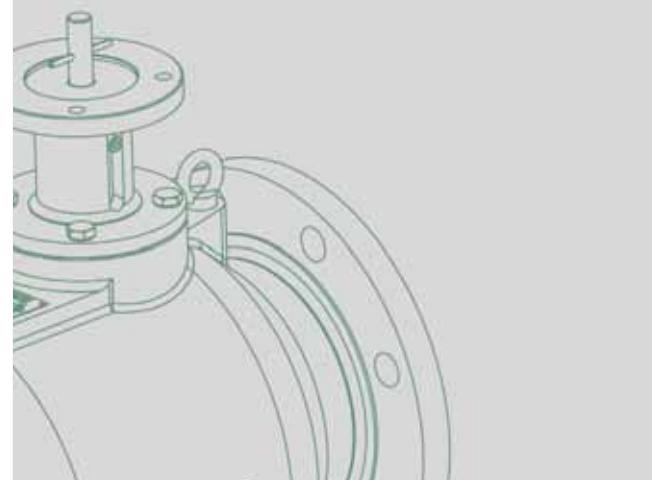
Needle valve  
DN 1600 PN 16  
Italy

### Technical Data

<b>Size</b>	DN 50 <> 3000 DN 2" <> 118"
<b>Pressure range</b>	PN 10 <> 100 ASME/ANSI 150 <> 600
<b>Actuation</b>	Manual, electric and hydraulic

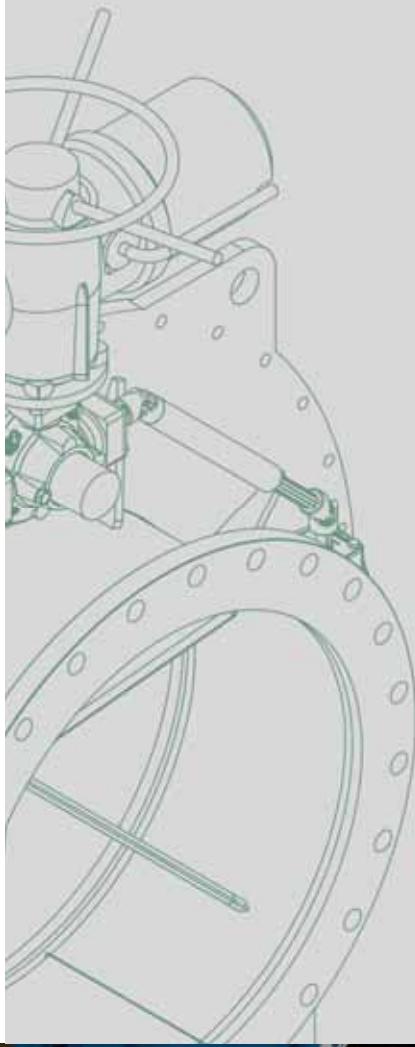


Stainless Steel needle valves bodies  
DN 200  
After partial machining in our workshop



Needle valve:  
detail of special  
anti-cavitation trim





## Fixed Cone Valves

The discharge of the flow is controlled by the movement of the sleeve of the valve against the fixed cone. The fixed cone valve discharges the raw water of dams to free air, chamber or underwater level. This valve is especially suitable to dissipate very high energy without any cavitation when discharge is made into free air. In the case when the water is discharged into chamber or underwater, Nencini is capable of designing the stilling pool or basin which are of primary importance for the effectiveness of the discharging and dissipation system.

### Applications:

- hydraulic power plants
- turbine by-pass
- controlled discharges
- automatic pressure surge relief.

**Customization on demand.**



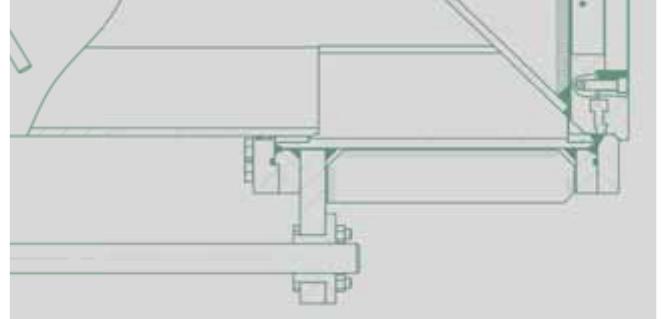
Fixed cone valve DN 1550 PN 16  
Under Final Acceptance Test (FAT)  
in our workshop

### Technical Data

<b>Size</b>	DN 250 <> 3400 DN 10" <> 100"
<b>Pressure range</b>	PN 10 <> 100 ASME/ANSI 150 <> 600
<b>Actuation</b>	Manual, electric and hydraulic



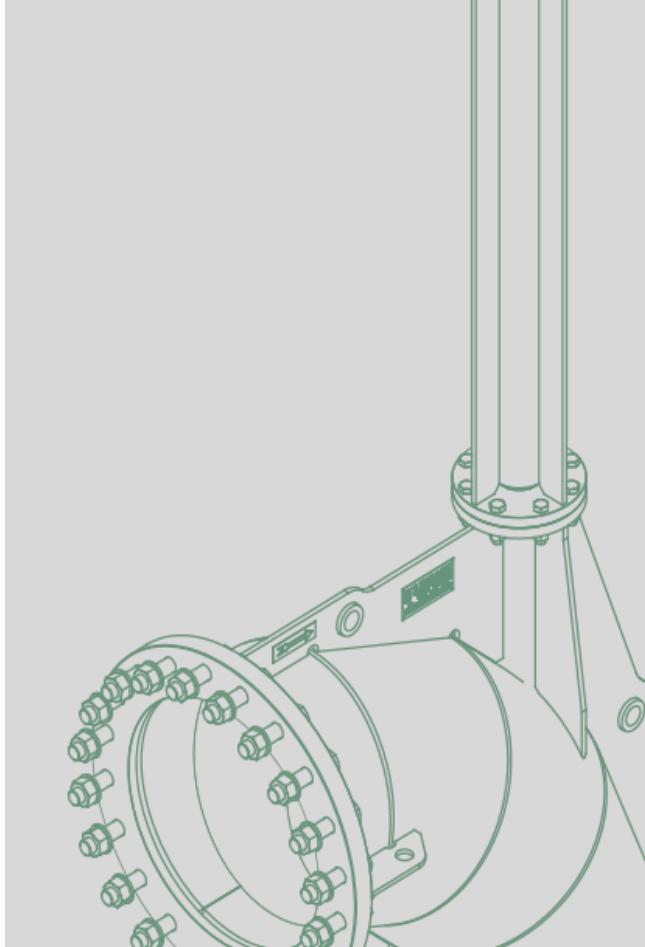
Fixed cone valve  
DN 2400 PN 16  
Thailand



Fixed cone valve  
DN 1000 PN 10  
Under assembling in our workshop



## Submerged Vertical Sleeve Valves



Used as turbine by-pass or to draw the water from dams. They reduce the excess head of the inflow, discharging a tamed outflow into the stilling basin and then into the downstream channel. We also design and engineer the stilling well related to the valve.

### Applications:

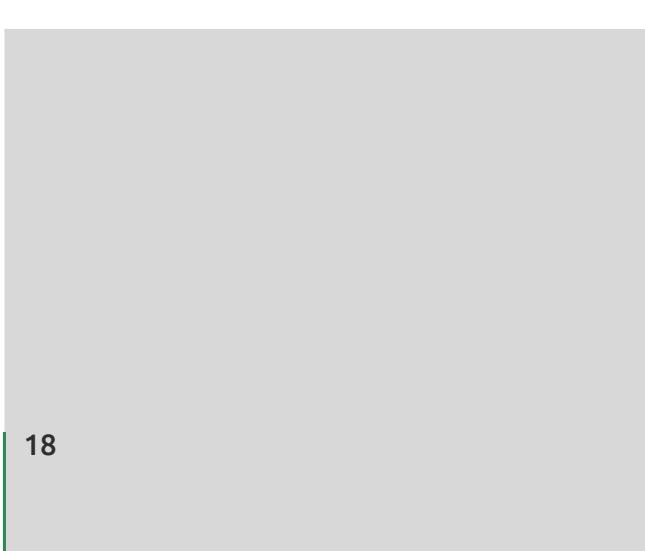
- hydraulic power plants
- turbine by-pass
- controlled discharges.

### Customization on demand.



Submerged vertical sleeve valves  
DN 900 PN 40  
Colombia

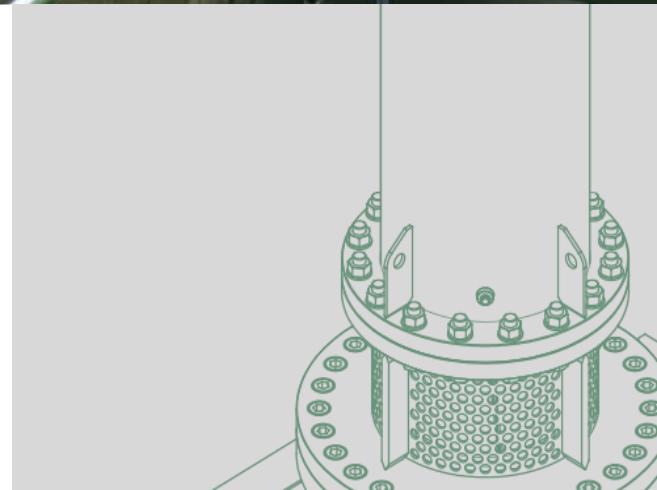
## Technical Data



<b>Size</b>	DN 100 <> 2200 DN 4" <> 84"
<b>Pressure range</b>	PN 10 <> 64 ASME/ANSI 150 <> 400
<b>Actuation</b>	Manual, electric and hydraulic

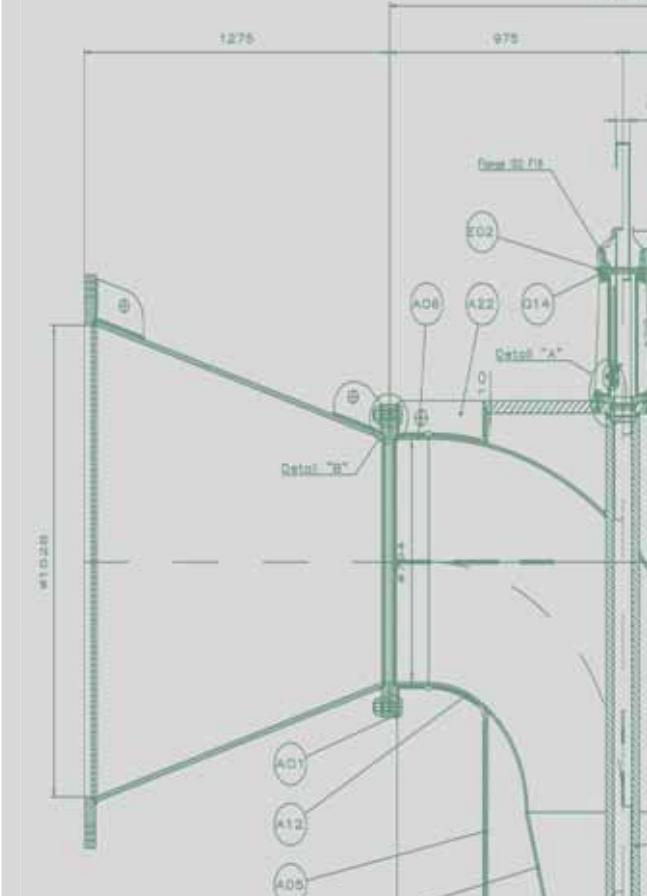


Submerged vertical sleeve valves  
DN 2000 PN 16  
Under Final Acceptance test (FAT) in our workshop



Submerged vertical sleeve valve  
DN 900 PN 10  
Detail of special anti-cavitation trim





## Double Flanged Sleeve Valves

They allow a very high upstream pressure loss, without any risk of critical phenomena (cavitation, vibration, noise) even with little downstream head pressure. They are also used as synchronous discharge tool for turbine plants (mainly Pelton or Francis turbines) because they are able to work in high pressure condition. The discharge is carried out under high head loss across of the valve.

### Applications:

- hydraulic power plants.

### Customization on demand.



Double flanged sleeve valve  
DN 1500 PN 10  
Saudi Arabia

### Technical Data

<b>Size</b>	DN 200 <> 1400 DN 8" <> 54"
<b>Pressure range</b>	PN 10 <> 150 ASME/ANSI 150 <> 900
<b>Actuation</b>	Manual, electric, hydraulic



Double flanged sleeve valves  
DN 300 PN 16  
Italy

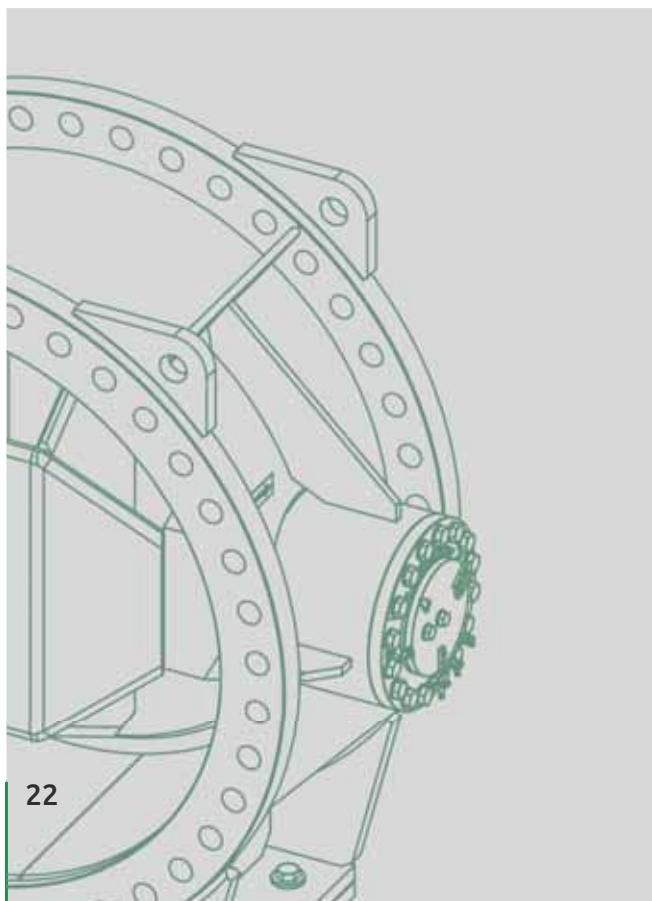


Double flanged sleeve valves  
DN 800 PN 25  
Italy





Butterfly valve  
DN 3500 PN 6  
Loading on the truck at our workshop



## Butterfly Valves

Valves for maintenance or safety purposes, they are engineered and customized to the special needs of hydroelectric power plants. Used as isolation device, they provide tight shut-off when closed and little pressure loss when open. Relatively easy to operate, they require limited room for installation. Large sizes are designed with biplane disc, lattice type, double eccentric and triple eccentric execution. We produce single or double seat type valves.

### Applications:

- water pipelines related to power generation facilities
- water treatment plants
- major water supply and distribution lines
- pumping plants

Available for raw, potable, sea and sewage water.

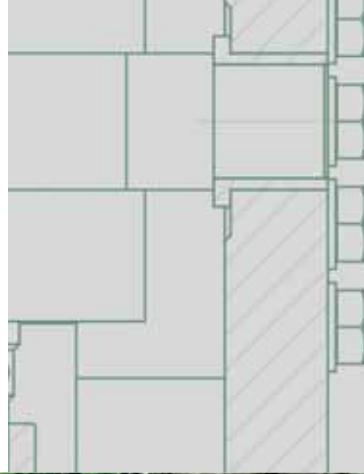
### Customization on demand.

## Technical Data

<b>Size</b>	DN 100 <> 3500 DN 4" <> 138"
<b>Pressure range</b>	PN 10 <> 50 ASME/ANSI 150 <> 300
<b>Actuation</b>	Manual, by counterweight, electric and hydraulic



Butterfly valve  
DN 2000 PN 10  
Iran

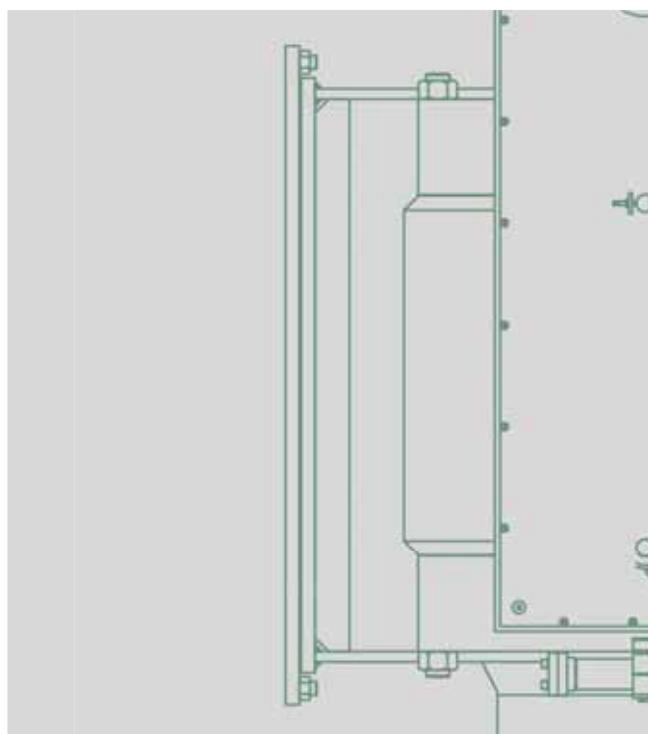


Butterfly valve  
DN 2000 PN 16  
Under exceptional discharge condition - Venezuela





Spherical valve  
DN 1500 PN 40  
Ethiopia



## Ball and Spherical Valves

Mainly used in hydroelectric power plants when high values of flow rate speed and/or pressure rating are required.

### Functions:

- maintenance operation
- emergency/safety closing operation
- as penstock valve

The main feature of the valves we produce is the actuation of the two movable seal rings, one on upstream and one on downstream side of the valves. They ensure the perfect tightness of the valve and in the same time the upstream one can be used as maintenance tool to work on the downstream one.

### Applications:

- hydraulic power plants
- discharge systems
- pumping stations.

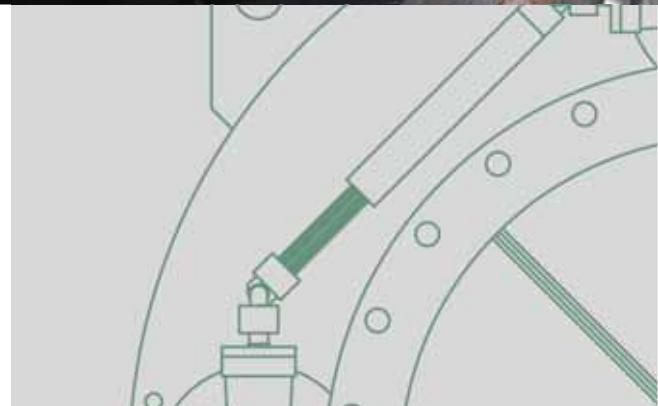
### Customization on demand.

## Technical Data

<b>Size</b>	DN 500 <> 2200 DN 20" <> 84"
<b>Pressure range</b>	PN 10 <> 100 ANSI 150 <> 600
<b>Actuation</b>	Manual, by counterweight, electric and hydraulic



Spherical valve  
DN 1500 PN 40  
Detail with dismantling joint



Ball valve  
DN 1400 ASME/ANSI 600  
Algeria





## Non-return Axial Valves

One-way valves allowing the fluid to flow in only one direction and preventing the backflow.

### Main features:

- optimization of the aerodynamic flow path through the valve, which allows little pressure losses
- highly responsive non-slam operation.

These valves work perfectly in very demanding operating condition.

### Applications:

- prevention of reverse flow
- prevention of water-hammer
- pump protection.

**Customization on demand.**



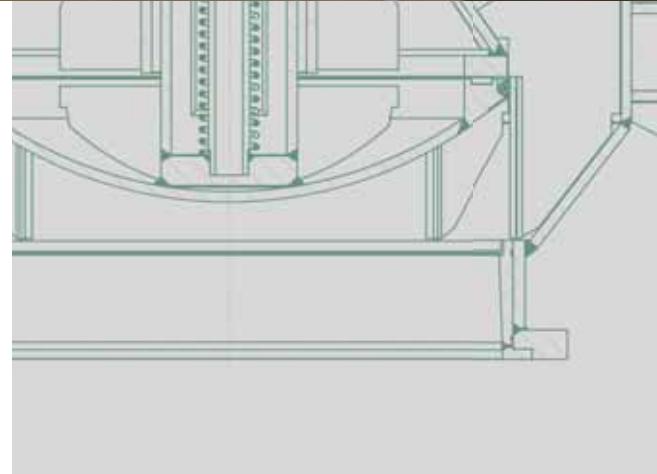
Non-return axial Valves  
DN 80 ASME/ANSI 150  
Saudi Arabia

## Technical Data

<b>Size</b>	DN 100 <> 1500 DN 4" <> 60"	<b>Actuation</b>	It remains in open position during normal flow. A drop in the flow rate causes the spring to move, thereby closing the valve.
<b>Pressure range</b>	PN 10 <> 100 ASME/ANSI 150 <> 600		



Non-return axial valve  
DN 1400 ASME/ANSI 600  
Algeria



Non-return axial valve  
DN 1600 PN 25  
Lebanon





Gate DN 1500 PN 10  
Italy

## Gates, Penstocks and Stoplogs

Generally used as guard valves in high-pressure outlet for dams, the gates operate in wide open or full closed position and therefore are suitable for all on/off applications. According to the project requirements we engineer and produce several kinds of gates:

- slide gates
- ring follower gates
- radial gates.

Penstocks and stoplogs are low pressure intake devices for channels, tanks and basins, and are usually wall-mounted. The normal position is the open one, they close when maintenance is required. To allow an easy handling, stoplogs are usually composed by several units that must be lift by a lifting beam and positioned one on top of the other to reach a level higher than the required water level.

### Materials:

- body in structural steel (carbon or stainless steel)
- leaf (for gates) in structural steel (carbon or stainless steel)
- sliding guides in stainless steel, bronze or special alloy
- tightness system: metal on metal or by soft seal (EPDM, NBR, Teflon, etc.).

### Applications:

- hydraulic power plants (gates)
- low-pressure intakes in channels, tanks and basins (penstocks and stoplogs).

### Customization on demand.

## Technical Data

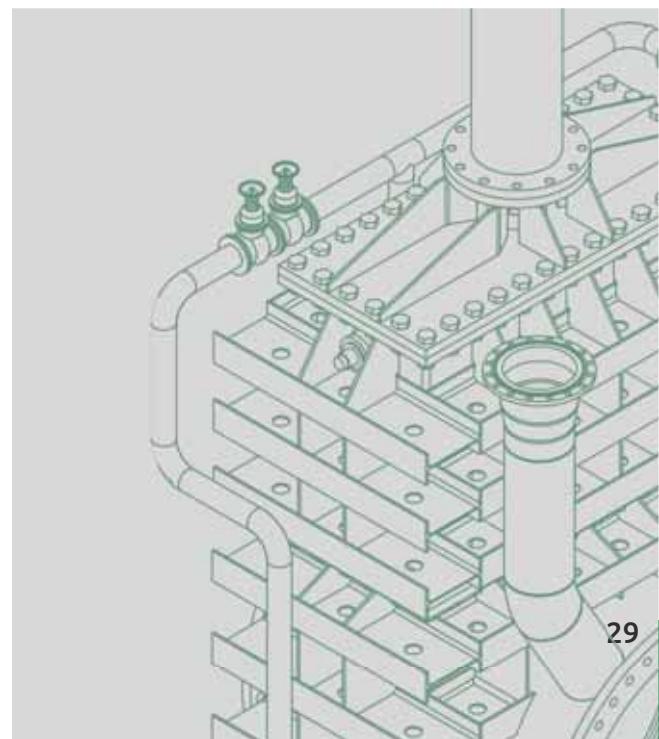
<b>Size</b>	<p>Round bore</p> <ul style="list-style-type: none"> <li>• Up to DN 2000</li> <li>• Up to DN 80"</li> </ul> <p>Square bore</p> <ul style="list-style-type: none"> <li>• Up to 2000x2000mm</li> <li>• Up to 80x80"</li> </ul> <p>Rectangular bore</p> <ul style="list-style-type: none"> <li>• Up to 2500x3500mm</li> <li>• Up to 100x130"</li> </ul> <p>Other on demand.</p>
<b>Pressure range for gates</b>	PN 6 <> 64 ASME/ANSI 150 <> 300
<b>Actuation for gates</b>	Electric or hydraulic
<b>Actuation for penstock and stoplogs</b>	Manual, electric or hydraulic



Gate 1500x1500 PN 10 - Vietnam

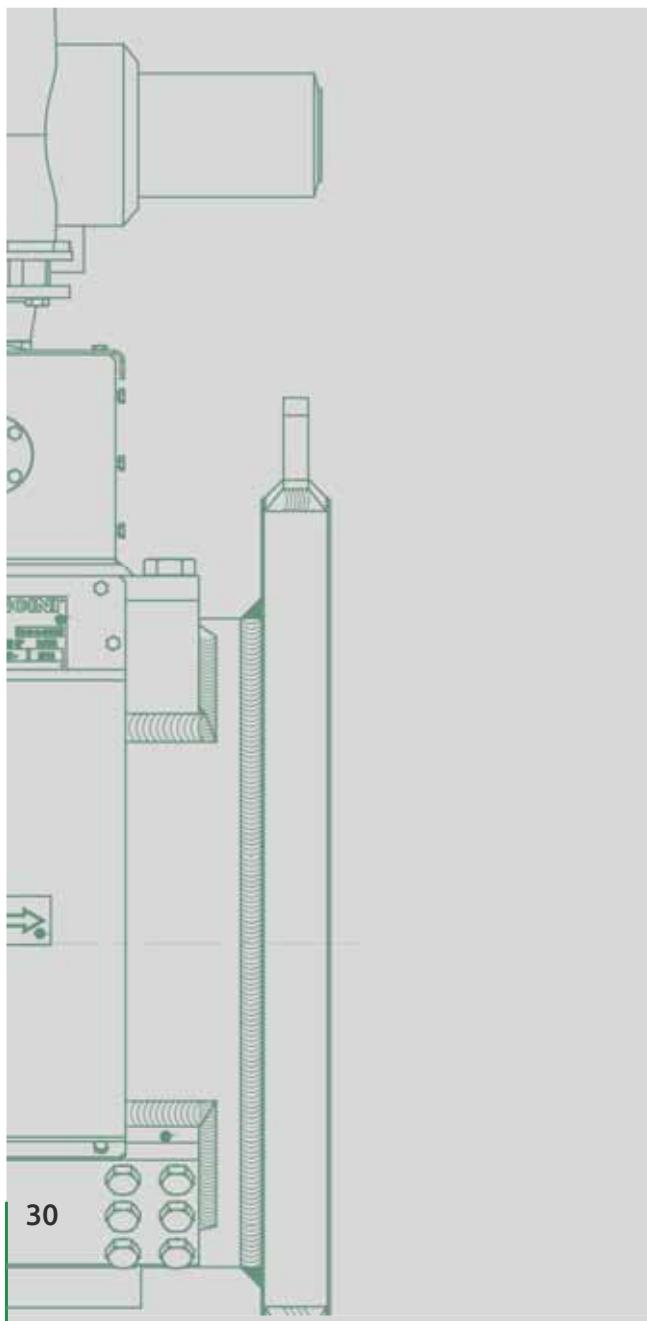


Penstock 1000x1000  
Saudi Arabia





Multijet rotative valve DN 1500 PN 25  
Saudi Arabia



## Multijet Rotative Valves

The simplicity of the design allows this valve to work under heavy flow condition for a long time. It is composed by one multi-hole plate assembled between two propeller-shaped plates, one fixed and the other rotating on the common axis. The valve control the flow operating in the full range between two end positions:

- open when the blades of the two propellers are perfectly aligned
- closed when the blades of the movable propeller overlap the empty room of the fixed propeller.

The multi-hole plate provides a downstream flow in evenly distributed jets.

### Applications

- water distribution systems
- supply of reclaimed water for agricultural use and recharge of basins
- headwork of water treatment plants
- flow relief for pump, turbine by-pass and other hydroelectric utility applications
- water intake at the bottom of dams and discharge control.

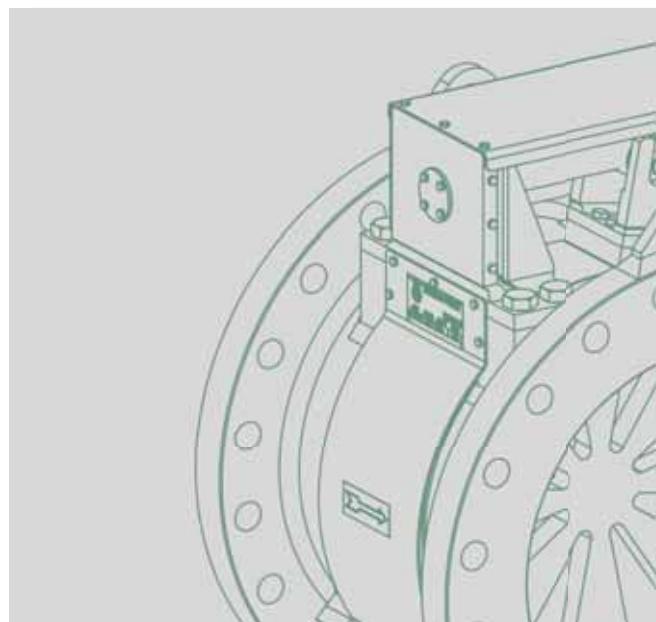
**Customization on demand.**

## Technical Data

<b>Size</b>	DN 100 <> 2000 DN 4" <> 80"
<b>Pressure range</b>	PN 10 <> 64 ASME/ANSI 150 <> 300
<b>Actuation</b>	Manual, electric or hydraulic



Multijet rotative valve DN 600 PN 16  
Italy



Multijet rotative valve DN 500 PN 25  
Saudi Arabia



## Other valves

We also design and manufacture:

- plug valves
- globe valves
- level control valves

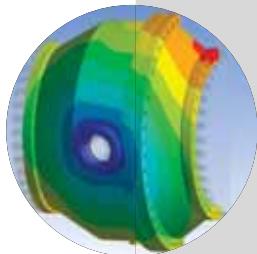
**Special design and customization on demand.**



Welding on a small component in our workshop



Butterfly valve DN 3300 PN 27 - Iceland



## Additional services

We provide you with:

- customer support
- design
- project support
- commissioning
- on site inspection
- training
- maintenance
- spare parts.



## **Nencini srl**

has specialized since 1967 in engineering and manufacturing waterworks equipment.

The company has started as a mechanical workshop for the production of valves for air control inside piping, and for flowrate and pressure control in drinking or irrigation water pipelines.

From the very beginning the company focused on solving cavitation and related problems such as vibrations inside piping, erosion of materials and the consequent damaging or destruction of piping.

The purely experimental imprint of Nencini has led to the acquisition of solid and proven knowledge for the design and construction of efficient, durable and reliable equipment.

Quite soon the company also started manufacturing valves to disperse the high amounts of energy associated with hydraulic power plant, and valves to discharge large flow from dams.

This experience is the technical feature and the trademark of Nencini engineering team, and is applied to the production control which takes place in the manufacturing facility, on every single valve produced by Nencini.

### **Nencini is the ideal partner**

for engineering companies, construction companies, general contractors, designers of water mains and hydraulic turbine, pump manufacturers.

### **Nencini's experience and know-how**

is based on the collaboration with the hydraulic laboratories of many Italian and International universities, which allows obtaining experimental data on valve models produced by Nencini.

Nencini has measured head losses through its own valves actually installed in different plants, and recorded the noise level of many of its valves subject to high energy dissipation.

The company actively participates in hydraulic congresses where the result of experimental studies on valves, performed in different hydraulics laboratories worldwide, are presented.

### **Nencini's design method**

consists in applying the basic mathematical design method (FEM) to analyse stress concentration, the CFD method to investigate cavitation potential inside piping, and the Acoustic Simulation Software to study propagation of vibration or sound upstream or downstream of the valves in the piping.

### **Nencini production range includes**

- needle valves for control of flow rate and pressure
- automatic air vacuum and release valves
- high pressure discharge valves (e.g. fixed cone valves)
- rotative valves
- high pressure energy dissipation valves
- large butterfly valves with counterweight and electric actuator
- non-return valves (e.g. recoil type).

### **The application fields for Nencini's products are**

- network plants: butterfly valves with electric actuator, butterfly valves with counterweight and hydraulic servomotor, flow control valves (e.g. needle valves with anti-cavitation device)
- pumping stations: non-return valves (recoil needle type), flow and pressure valves, relief pressure valves, air vacuum and air release valves
- treatment and desalination plants: flow and pressure control valves (e.g. needle type), air and vacuum air valves
- hydraulic power plants: butterfly valves with counterweight and hydraulic servomotors, rotative valves, submerged sleeve valves
- dams: exhaust valves (e.g. fixed cone valves), large bottom penstocks
- city waterworks: flow and pressure needle type valves, large size of on-off valves, air release and vacuum valves.

### **Nencini QUALITY SYSTEM**

Nencini Srl is qualified UNI EN ISO 9001.



## ON - OFF VALVES



► **Butterfly valve**  
DN 2400 PN 10

**Butterfly valve**  
DN 3500 PN 6



▼  
**Butterfly valve**  
DN 2000 PN 10

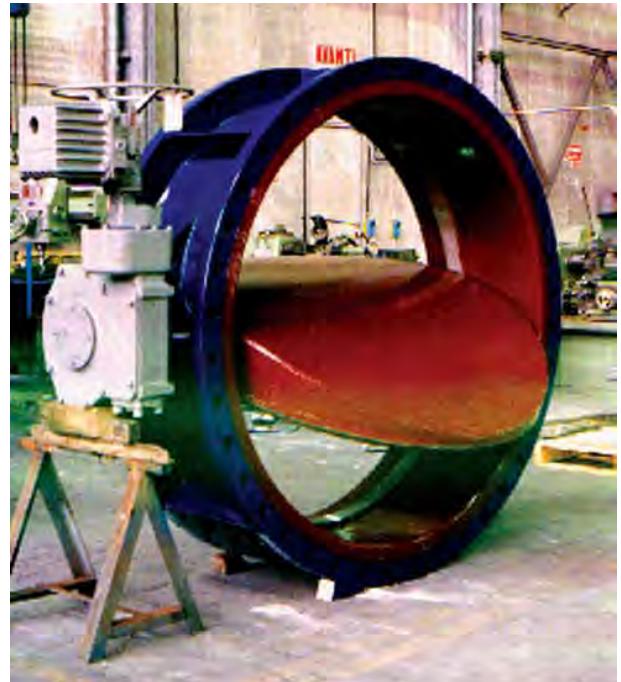


► **Butterfly valve**  
DN 3600 PN 10

## ON - OFF VALVES

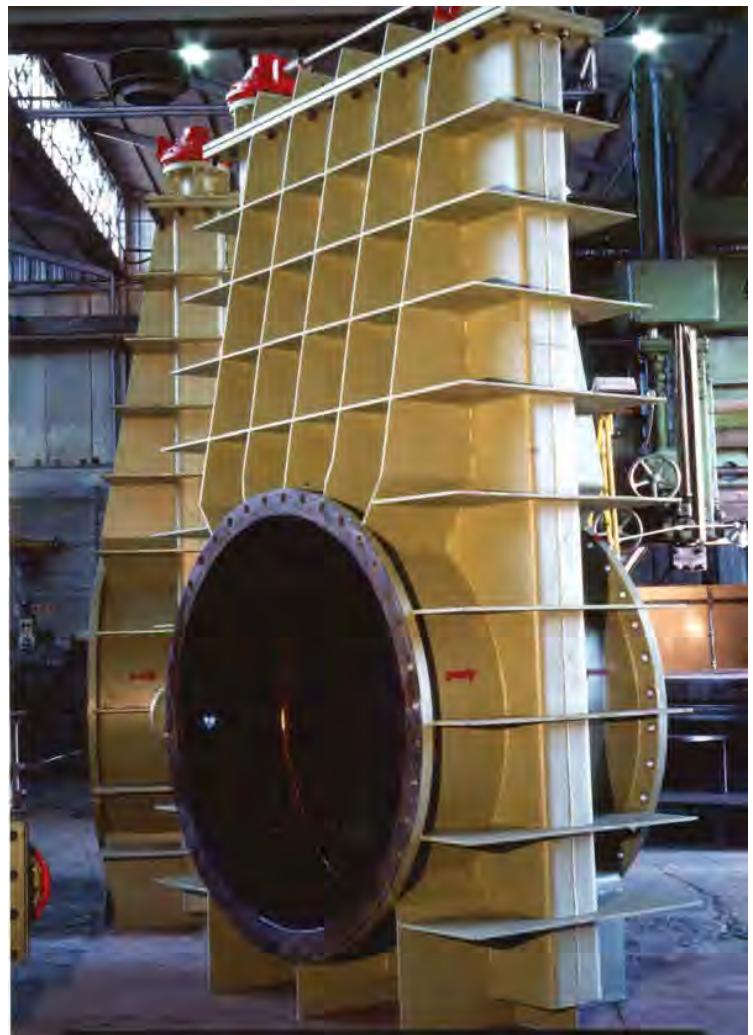


Butterfly valve  
DN 1600 PN 10



Butterfly valve  
DN 2400 PN 10

Gate valve  
DN 1500 PN 10



Butterfly valve  
DN 600 ANSI 600



## CHECK VALVES



► **Non Return Valve Venturi type**  
DN 300 PN 25



**Butterfly valve**  
DN 2400 PN 6



► **Butterfly valve**  
DN 1000 PN 16  
Aluminium bronze



► **Non return Valve**  
**Ventury type**  
DN 600 PN 25



## FLOW AND PRESSURE CONTROL VALVES



► **Needle Valve**  
DN 100 PN 16  
Cut a view



► **Needle Valves**  
DN 2000 PN 16



▼  
**Needle Valves**  
DN 1400 PN 10



► **Needle Valve**  
DN 3000 PN 10

## FLOW AND PRESSURE CONTROL VALVES

Needle Valve  
DN 800 PN 16  
Stainless Steel



Needle Valve  
DN 1800 PN 16



Needle Valve  
DN 200 ANSI 300  
Stainless Steel



Needle Valve  
DN 600 PN 16  
Welded Stainless Steel



## FLOW AND PRESSURE CONTROL VALVES



▶ **Needle Valves**  
DN 200 PN 16  
Stainless Steel

▶ **Needle Valve**  
DN 1400 PN 10  
Body pressure test



▶ **Needle Valve**  
DN 2400 PN 10



## PRESSURE AND FLOW CONTROL VALVES



► **Globe valve**  
DN 600 PN 40



► **Double flanged sleeve valves**  
DN 800 PN 25



► **Double flanged sleeve valve**  
DN 300 ANSI 600

► **Double flanged sleeve valve**  
DN 600 ANSI 600



► **Double flanged sleeve valves**  
DN 400 PN 16



## AUTOMATIC CONTROLS VALVES



► Automatic pressure control valve self - actuated  
DN 1500 PN 10

Automatic pressure control valve self - actuated  
DN 800 PN 16



► Automatic pressure control valve self - actuated  
DN 1200 PN 10

Automatic pressure control valve self - actuated  
DN 600 PN 25



## SAFETY VALVES FOR HYDROPOWER PLANTS



Butterfly valve  
with counterweight  
DN 3500 PN 10



Butterfly valve  
with counterweight  
DN 1200 PN 16



Counterweight Butterfly Valve  
DN 2000 PN 16  
for Hydropower by-pass

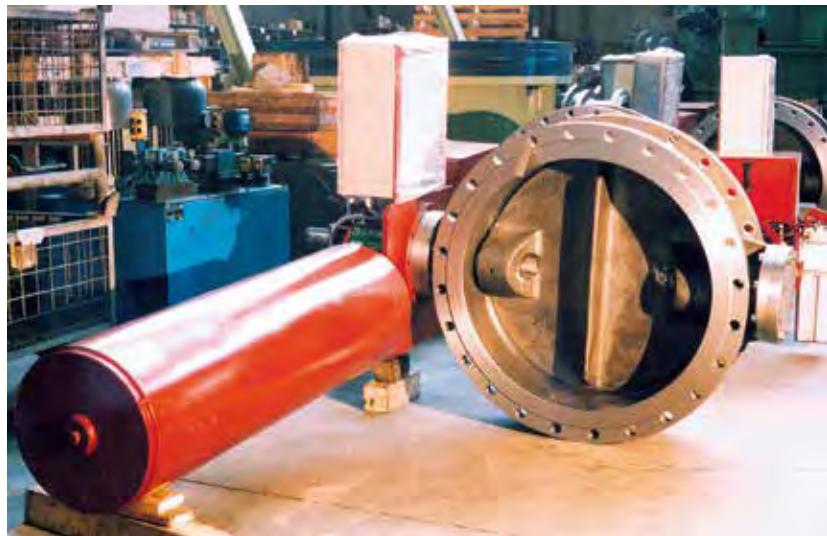


Counterweight Butterfly Valve  
DN 2000 ANSI 400  
for Hydropower by-pass

Butterfly valve  
with counterweight  
DN 3500 PN 10



## SAFETY VALVES FOR HYDROPOWER PLANTS



► **Safety Valve. Butterfly Type.**  
DN 600 PN 16  
Aluminium bronze

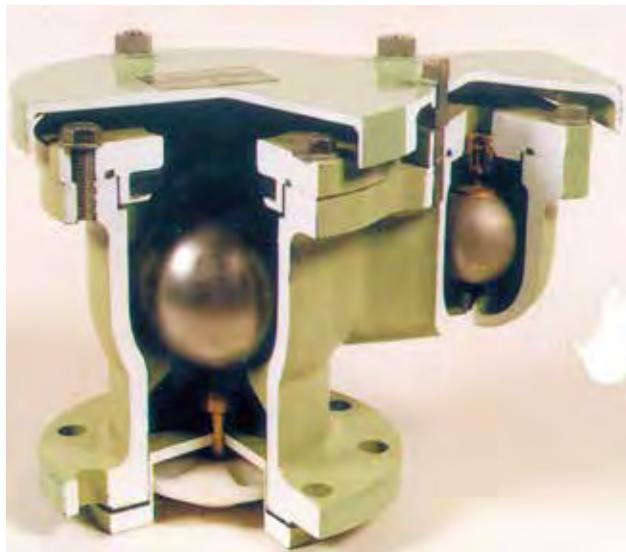


► **Safety Counterweight Butterfly Valve**  
DN 2500 PN 25  
Welded carbon steel

► **Counterweight Butterfly Valve**  
DN 2000 ANSI 400  
for Hydropower by-pass



## AIR VALVES



► Double action  
air valve  
DN 150 PN 16



▼  
Air vacuum valve  
DN 700 PN 10



▲ Double acting  
air valve AL-BZ  
DN 100 PN 16



▼ Double acting  
air valve with release device  
and antislam unit  
AL-BZ  
DN 500 PN 10



## AIR VALVES

Double acting  
and release air valve AL-BZ  
DN 200 PN 10



► Double acting  
and release air valve  
with shut-off valve  
DN 100 PN 16



Anti vacuum  
air valve  
DN 400 PN 10



## TANK LEVEL CONTROLS VALVES



► **Tank Level Control Valve**  
DN 500 PN 16  
Ductile cast iron



▼ **Capitanata Plant (Italy)**  
Tank level control valves



▼ **Tank Level Control Valve**  
DN 600 PN 10  
Welded carbon steel

**Outlet Folw Control Valve**  
**Sleeve type**  
DN 500 PN 25  
Welded carbon steel



## DISCHARGE VALVES



► Submerged sleeve valve  
DN 2000 PN 16



► High Pressure Control Valve  
DN 400 PN 25  
Welded carbon steel



► Submerged vertical  
sleeve valve  
DN 2000 PN 16



## DISCHARGE VALVES



► **Discharge Valve  
Sleeve type**  
DN 1200 PN 25  
Welded carbon steel



► **Submerged discharge valve,  
Vertical Sleeve type**  
DN 600 PN 25  
Welded carbon steel

▼ **Fixed cone valve  
with hood**  
DN 600 PN 16



◀ **Fixed cone valve  
with hood**  
DN 500 PN 25

## DISCHARGE VALVES



► Fixed cone valve  
DN 1000 PN 25



► Fixed cone valve  
DN 2400 PN 10



► Fixed cone valve  
DN 600 PN 16

## PENSTOCKS



▼  
**Penstock - 2000x2000 mm**  
Welded carbon steel



▼  
**High Pressure Outlet Slide Gates**  
**2550x2500 mm. Head 30 m.w.c.**  
Welded carbon steel



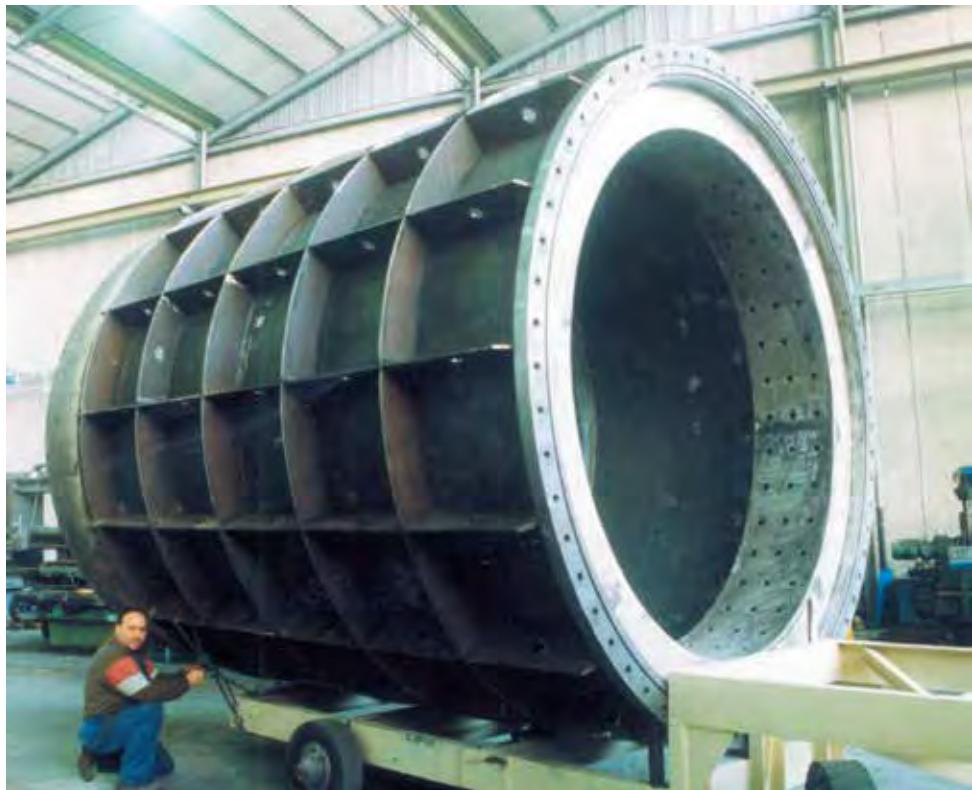
▼  
**High Pressure Outlet Slide Gate**  
**3000x3000 mm Head 45 m.w.c.**  
Welded carbon steel

▼  
**High Pressure Outlet**  
**Radial Gate**  
**3000x3000 mm**  
**Head 45 m.w.c.**  
Welded carbon steel



▼  
**On-Off**  
**Penstock for basin**  
**2500x2500 mm**  
Welded Carbon steel





► Dissipating energy  
chamber for Howell-Bunger  
DN 1200 PN 40

Submerged arc  
welding process for  
Butterfly valve body

Needle valve body  
after welding process  
DN 3000 PN 10





► Autolubrificating bearings  
for Butterfly valve  
AL-BZ



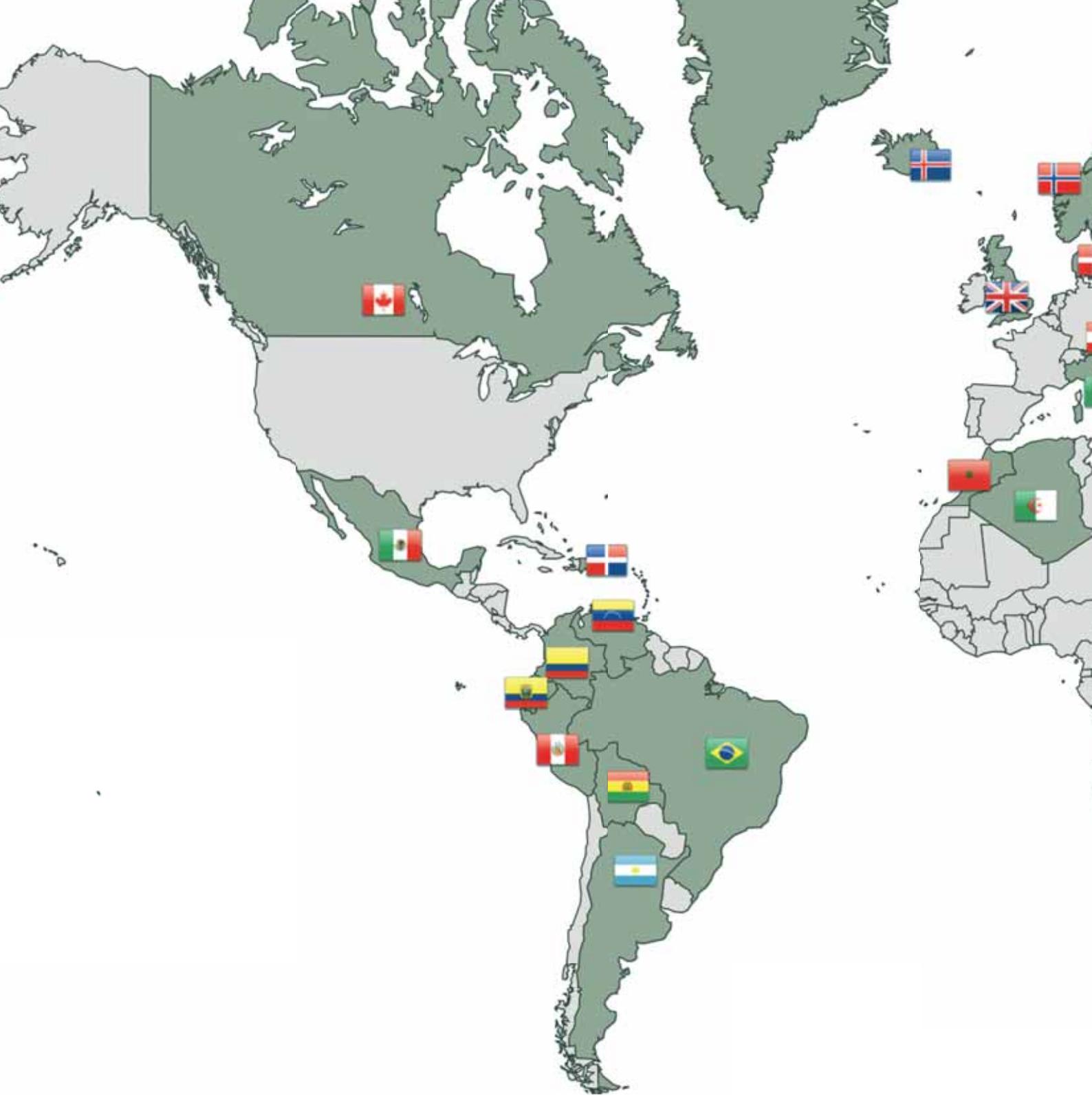
► Butterfly valve disc  
DN 3550 PN 12

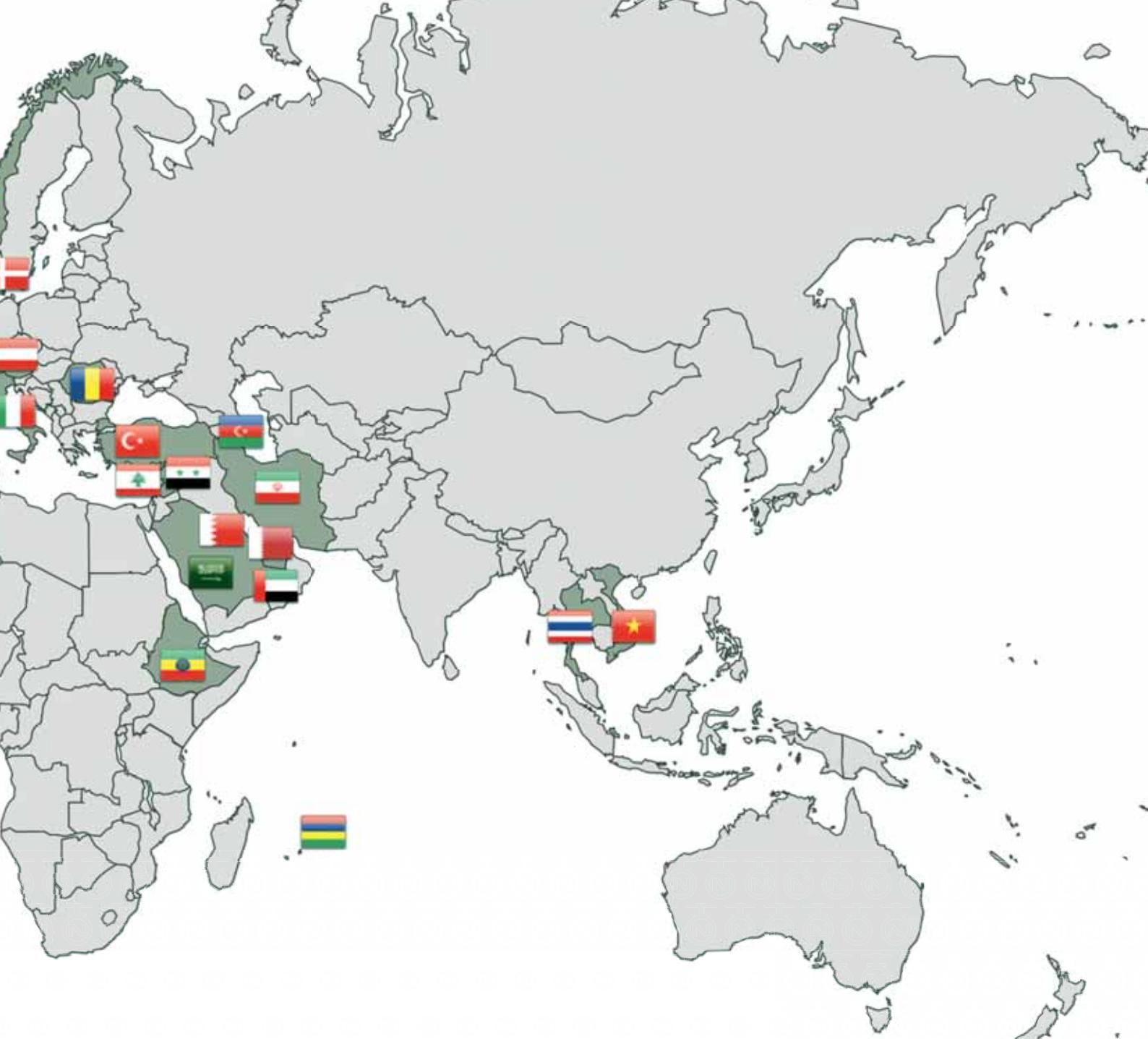


► Butterfly valve body  
DN 3550 PN 12

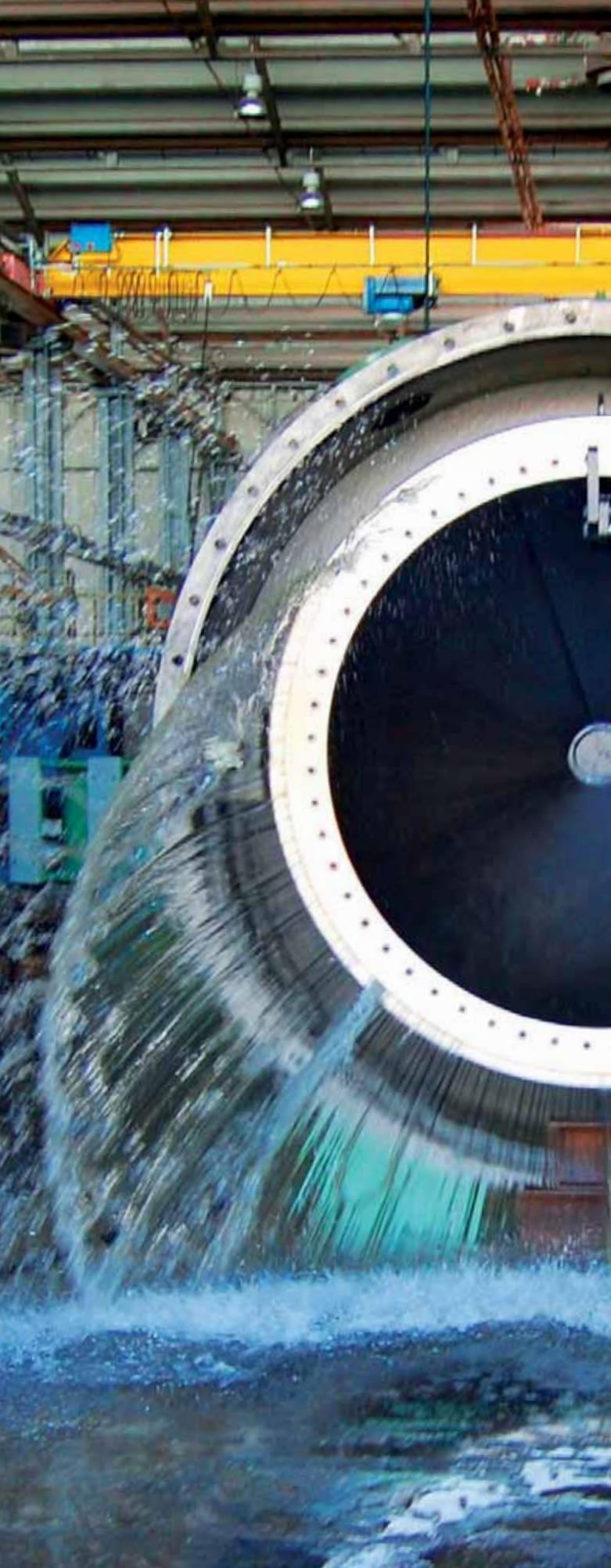


► ST ST Shafts for  
Butterfly valves





**Worldwide for over 50 years**



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