



DLYY

High Quality Custom Size Rubber Dam

DALIAN YINGYU CO., LIMITED



- Brief introduction**

Rubber dam is made of high-strength, age-resistant rubber fabric—normally a synthetic-fiber carcass coated with rubber layers—and is anchored to the river or canal bed.

Its working principle is simple: pumps or air compressors fill the rubber bag with water (or air) to inflate the dam and create a water-retaining barrier. When flood discharge or a lower upstream level is needed, the internal medium is released, the bag collapses flat against the riverbed, and the flow path is restored.



- Performance**

Item		Unit	Outer layer	Middle layer,Inner layer	Cover rubber sheet
Tensile strength at break≥		Mpa	14	12	6
Elongation at break≥		%	400	400	250
Permanent deformation at break≤		%	30	30	35
Hardness(shore A)		.	55~65	50~60	55~65
Brittleness temperature≤		° C	-30	-30	-30
Hot air aging (100° C*96h)	Tensile strength at break≥	Mpa	12	10	5
	Elongation at break≥	%	300	300	200
Hot water aging (70° C*96h)	Tensile strength at break≥	Mpa	12	10	5
	Elongation at break≥	%	300	300	200
	Volume expansion ratio≤	%	15	15	15
Ozone aging: 10000pphm, temperature 40° C, stretching 20%, no cracking			120	120	100
Wear loss(Akron) ≤		cm³/1.61km	1.0	1.0	1.2
Flexibility, no cracking		Ten thousand times	20	20	20



Rubber Dam

• Features

- It is more expensive, slower to fill, but more stable to control over upstream water level than air inflatable rubber dam.
- Tear-shaped rubber dam is on the wide concrete still.
- It can withstand overflow 50% in height.
- It can operate without electric power.
- **Outer rubber is thick, is resistant to wear, sunlight, heat, ozone, aging, etc.**
- Middle layer rubber can protect canvas and connect canvas.
- Inner rubber has high airtight and watertight, is resistant to aging of canvas.
- Inflating and deflating time of water inflatable rubber dam is longer than air inflatable rubber dam.
- Inflating water stably, dam bag is heavy which can decrease vibration.
- Water inflatable rubber dam is high volume low pressure system, so high pressure compressors are not needed.
- Compared with conventional sluice dam, investment of water inflatable rubber dam reduced by 30-70%, wood saved by over 60%, steel saved by 30-50%, concrete saved by 50%.
- **It is resistant to shock, rust, foundation deformation, also has good sealing effect, perfect seismic performance, completely collapse capability and no water resistance.**
- Various colors and beautiful styles can create landscape and beautify the environment.
- Inflating or deflating can be controlled by pumps or compressors which are controlled by automatic computer control.
- Simple construction and installation on new or existing foundation.
- Maintenance cost of water inflatable rubber dam is low.
- **Construction period is short, only need 3-15 days.**
- **The service life span of water inflatable rubber dam usually is up to 15-25 years.**



Rubber Dam

- Rubber Dam Type

1. Air Inflatable Rubber Dam

Air inflatable rubber dam, a long tubular-shaped fabric, is a novel hydraulic building presented by the development of macromolecular synthetic material industry. It consists of high strength canvas as the reinforced framework and synthetic rubber, is fixed to a reinforced concrete foundation using clamping plates and anchor bolts. It is usually used for retain water, irrigation, control flood, power generation, etc.

- A. Product Picture





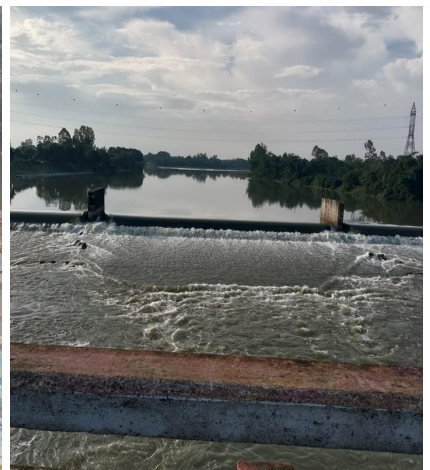
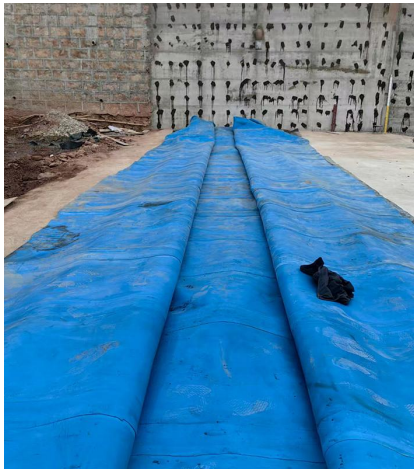
Rubber Dam

- Rubber Dam Type

2. Water Inflatable Rubber Dam

Water inflatable rubber dam is a kind of water-inflated stable tear-shaped rubber dam. Rubber dam consists of civil works, dam bag, anchor, filling drainage facilities and control system. It is made of strength canvas as reinforced framework and rubber layer which ensure tightness of the rubber layers. It is usually used to retain water, adjust the water level, irrigation, generate hydro-electric power, control flood, etc.

B. Product Picture





Rubber Dam

- Rubber Dam Type

3. Bookend Rubber Dam

Bookend rubber dam, also named as spine type rubber dam, has obvious fins on the dam body to form a rising angle when the dam is inflated. It is made of high strength canvas as the reinforced framework and synthetic rubber fixed to a reinforced concrete foundation using clamping plates and anchor bolts. It is usually used to retain water, agricultural irrigation, generate electricity, control flood, beautify environment, etc.

C. Product Picture





Rubber Dam

- Rubber Dam Type

4. Shield Type Rubber Dam

Shield type rubber dam, also named pneumatic shield type rubber dam, is a new kind of rubber dam integrating the advantages of traditional steel dam and rubber dam. It consists of civil part, embedded components, shield plates, air bladders, pneumatic charging and discharging system. It is widely applied to many fields such as water conservancy, hydroelectricity, water transportation, moisture proof and beautify the environment, etc.

D. Product Picture



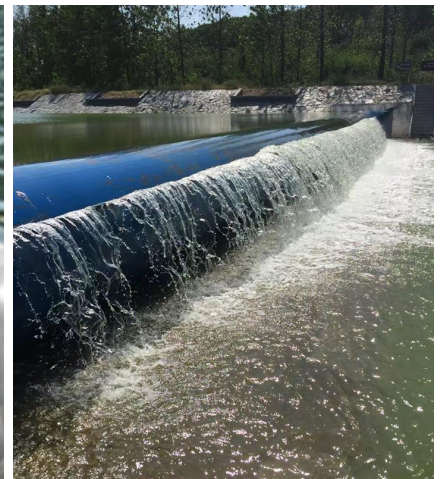
Rubber Dam

- Rubber Dam Type

- 5. Spoiler Rubber Dam

Spoiler rubber dam, also known as disturbed flow rubber dam, adds the spoiler seismic structure at the base of common rubber dam. It is made of rubber cloth vulcanized by EPDM and synthetic fabrics. It is usually used to retain water, control flood, agricultural irrigation, power generation, beautify environment, etc.

E. Product Picture

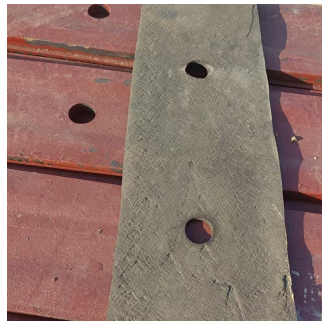


- Rubber Dam Type

6. Rubber Dam Accessories

Installation of rubber dam is fixed dam bag to concrete foundation firmly. Mentioning fix and install, necessary accessories are clamping plates and anchor bolts.

F. Product Picture





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DALIAN YINGYU CO., LIMITED

Is a leading designer and manufacturer of seals and rubber products with over 20 years experience. Our current business scope includes the production and sales of industrial and engineering rubber products. Such as bridge expansion joints, waterstops, rubber fenders, rubber airbags, solar panel rubber strip etc. We provide ODM&OEM service. Welcome to contact us for samples, inventory samples are free of charge.

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