

Bulldog Artery Forceps / Clamp

✔ Description

The **Bulldog Artery Forceps** (also called a **Bulldog Clamp**) is a small, spring-loaded vascular clamp used to temporarily occlude (block) blood vessels during surgical procedures. It is especially valuable for **controlling bleeding** without permanently damaging the vessel.

✔ Specifications

Parameter	Typical Details
Material	Surgical-grade stainless steel (SS 304 or 316)
Length	35 mm – 90 mm (varies by type & usage)
Jaw Type	Straight or curved
Tip Features	Serrated or smooth (atraumatic)
Clamp Force	50–250 grams of pressure (delicate occlusion)
Mechanism	Spring-loaded or manually applied
Weight	Lightweight (15g – 50g)
Sterilization	Fully autoclavable

✔ Types

- ✔ **Straight Bulldog Clamp** – For general vessel clamping
- ✔ **Curved Bulldog Clamp** – For deeper or angled access
- ✔ **Cooley Bulldog Clamp** – Atraumatic, delicate clamping for vascular surgery
- ✔ **DeBakey Bulldog Clamp** – Fine jaw serrations for major vessel control
- ✔ **Mini Bulldog Clamp** – Small vessels, microsurgery

✔ Material

- Premium surgical stainless steel (non-rusting, autoclavable)
- Some models may have **titanium** bodies (lightweight, non-magnetic)
- Jaw inserts may be **silicone-coated** or **plastic-tipped** for atraumatic grind

✔ Product Form

- Reusable, single-piece spring clamp
- Available in sterile (disposable) or sterilizable versions
- Some available with colour coding or force measurement features

👩 Human Medical

- Cardiovascular surgery (e.g., bypass grafting, valve replacement)
- General surgery to control temporary bleeding
- Kidney or liver procedures involving vascular dissection

🐾 Veterinary

- Temporary occlusion of arteries during spaying/neutering
- Use in vascular surgeries or wound management in animals
- Ideal for small animals and delicate vessels (e.g., dogs, cats, rabbits)






✔ Advantages

- ✔ Provides gentle yet secure occlusion of blood vessels
- ✔ Minimizes vessel trauma and reduces post-op complications
- ✔ Lightweight and easy to apply
- ✔ Reusable and long-lasting
- ✔ Precise control in vascular fields

✘ Disadvantages

- ✘ Limited to **temporary** occlusion only
- ✘ Not suitable for large or high-pressure vessels
- ✘ Requires skilled placement to avoid vessel slippage or trauma
- ✘ Small size—easy to misplace during surgery if not tracked

Precautions

-  Ensure sterilization before and after each use
-  Avoid over-clamping; can cause vessel wall damage
-  Choose appropriate jaw type based on vessel size and depth
-  Check spring tension regularly for consistent pressure
-  Store properly to avoid damage to spring mechanism or tips

Sterilization Details

- Autoclave at **121°C for 15–20 minutes**
- Avoid chemical sterilant that may degrade plastic tips (if applicable)
- Allow full drying post-autoclave to prevent corrosion

Handling & Maintenance

- Clean immediately after use (remove blood/tissue)
- Inspect spring action and jaw alignment regularly
- Replace or service if spring loses tension or tips are damaged
- Store in dedicated surgical trays or pouches

HS / HSN Code

Code Type	Code	Description
HS Code	9018.90	Surgical and veterinary instruments (other)
HSN Code (India)	90189099	Miscellaneous surgical instruments including bulldog clamps

? Frequently Asked Questions (FAQs)

Q1: What is a bulldog clamp used for?

✓ It is used to temporarily block blood flow in a vessel during surgery.

Q2: Is it reusable?

✓ Yes, surgical-grade bulldog clamps are sterilizable and reusable.

Q3: What is the difference between a bulldog clamp and artery forceps?

✓ Bulldog clamps use spring tension and are non-locking; artery forceps (like mosquito forceps) have locking ratchets.

Q4: Can it be used in veterinary procedures?

✓ Absolutely, especially in delicate procedures like vessel isolation during spays or tumour removals.

Q5: Is it atraumatic?

✓ Many bulldog clamps are designed to be atraumatic, especially those with smooth or coated jaws.

