



@2025

MARINE HARDWARE

# PRODUCT CATALOG

---

METRAXION SOURCING SOLUTIONS CORP



# Company Profile

**Jiangsu Xinyi Huayang Metal Products Co., Ltd.**, located in the industrial hub of Caoqiao Town, Xinyi City, Jiangsu Province, was established in August 2008. At Huayang, we prioritize quality above all else. Guided by precision manufacturing and strict management standards, we continuously strive to improve our products. We are committed to excellence, consistency, and meeting customer requirements through high-quality products and exceptional service, all while ensuring the creation of first-class product quality.

Our company operates on the principle of "people-oriented, pragmatic, and innovative". By leveraging our strengths, we produce high-quality products that have earned us a strong reputation. We warmly welcome both domestic and international partners to explore business opportunities and collaborate with us. Our team is united in its dedication to innovation and the production of high-quality goods.

Huayang employs modern production techniques, integrating silica sol precision casting with finished product processing. Our main product categories include building hardware and marine hardware, such as staircase handrail systems, stainless steel brackets, and glass clamps. With self-export rights, our products are sold to over 20 countries, including those in Europe and the United States.



150+

Employees

6200m<sup>2</sup>

Land Area



# Process



# Content

<b>01. Anchoring</b>	<b>07</b>
316 Stainless Steel Bruce Anchor .....	09
Chain .....	12
Anchor Swivel Connector .....	13

<b>02. Fishing Rod Holder</b>	<b>15</b>
Lure Fishing Rod Holder .....	17
Flush Fishing Rod Holder .....	19
Adjustable Fishing Rod Holder .....	21
Outrigger Rod Holder .....	25

<b>03. Boat Cleat</b>	<b>27</b>	<b>04. Connector</b>	<b>43</b>
Boat Open Base Cleat .....	29	Straight Connector .....	45
Boat Pull Up Cleat .....	31	60° T Elbow .....	45
Boat Flip Up Cleat .....	33	2-Way 90° Elbow .....	46
99012 Boat Cleat .....	35	T Elbow .....	46
Boat Open Base Cleat .....	37	90° 4-Way Elbow .....	47
Boat Folding Cleat .....	39	Cross Elbow .....	47
Boat Pull Up Cleat .....	41	90° 3-Way Elbow .....	48
		Handrail Round Base .....	48

<b>05. Awning Accessories</b>	<b>49</b>
Boat Bimini Top Cap .....	51
Boat Bimini Jaw Slide .....	53
Boat Bimini Deck Hinge .....	54

<b>06. Hinge</b>	<b>55</b>	<b>07. Fuel Filler</b>	<b>63</b>
2699 Hinge .....	58	38 Boat Fuel Filler .....	65
5989 Hinge .....	59	50 Boat Fuel Filler .....	66
4747 Hinge .....	59	38 Angle Boat Fuel Filler .....	67
3838/5050 Hinge .....	60	50 Angle Boat Fuel Filler .....	68
3050 Hinge .....	60		
5055 Hinge .....	61		
7550 Hinge .....	61		
7638 Hinge .....	62		
T Hinge .....	62		

<b>08. Boat Ladder</b>	<b>69</b>
Boat Telescopic 3-4 Step Ladder .....	71
Boat Telescopic 3-4 Step Ladder with Railing .....	72
Boat Telescopic 4 Step Ladder with Railing .....	73
Boat Folding 3-5 Step Ladder .....	74
Boat Telescopic 3-4 Step Sliding Ladder .....	75
Boat Folding 5 Step Ladder .....	76

<b>09. Steering Wheel</b>	<b>77</b>
Boat 5 Spoke 3/4 inch Steering Wheel .....	79
Boat 5 Spoke 3/4 inch Steering Wheel .....	80
Boat 3 Spoke Steering Wheel .....	81



# Anchoring



Bruce Anchor  
Chain  
Anchor Swivel Connector



### Non Horizontal Pole Design

Avoids Entanglement .



Manual Mirror Polishing



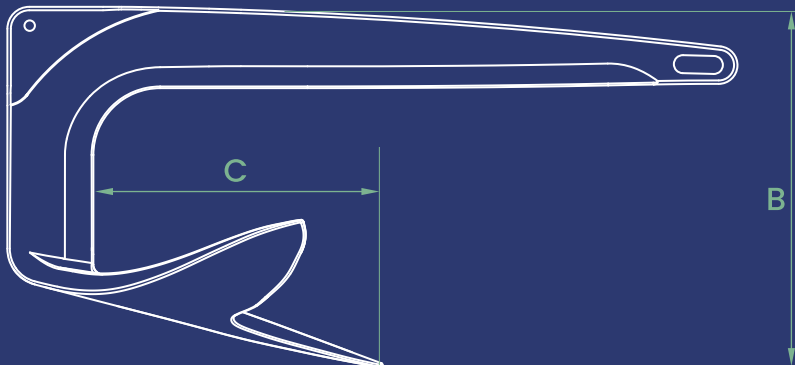
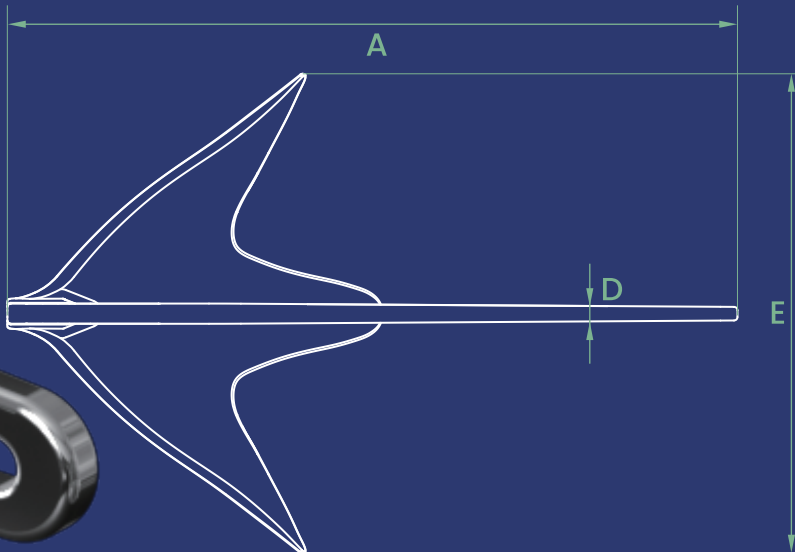
Exceptional Corrosion Resistance



316 Stainless Steel (Marine Grade Material)



Pass standard salt-spray testing



### Triangle Stable Claw Type

Automatically Flips To The Optimal Grip Angle.

### Tips:

Bruce anchors are engineered with shank shapes that self-launch and self-right on retrieval, making them easy to handle for all boaters.

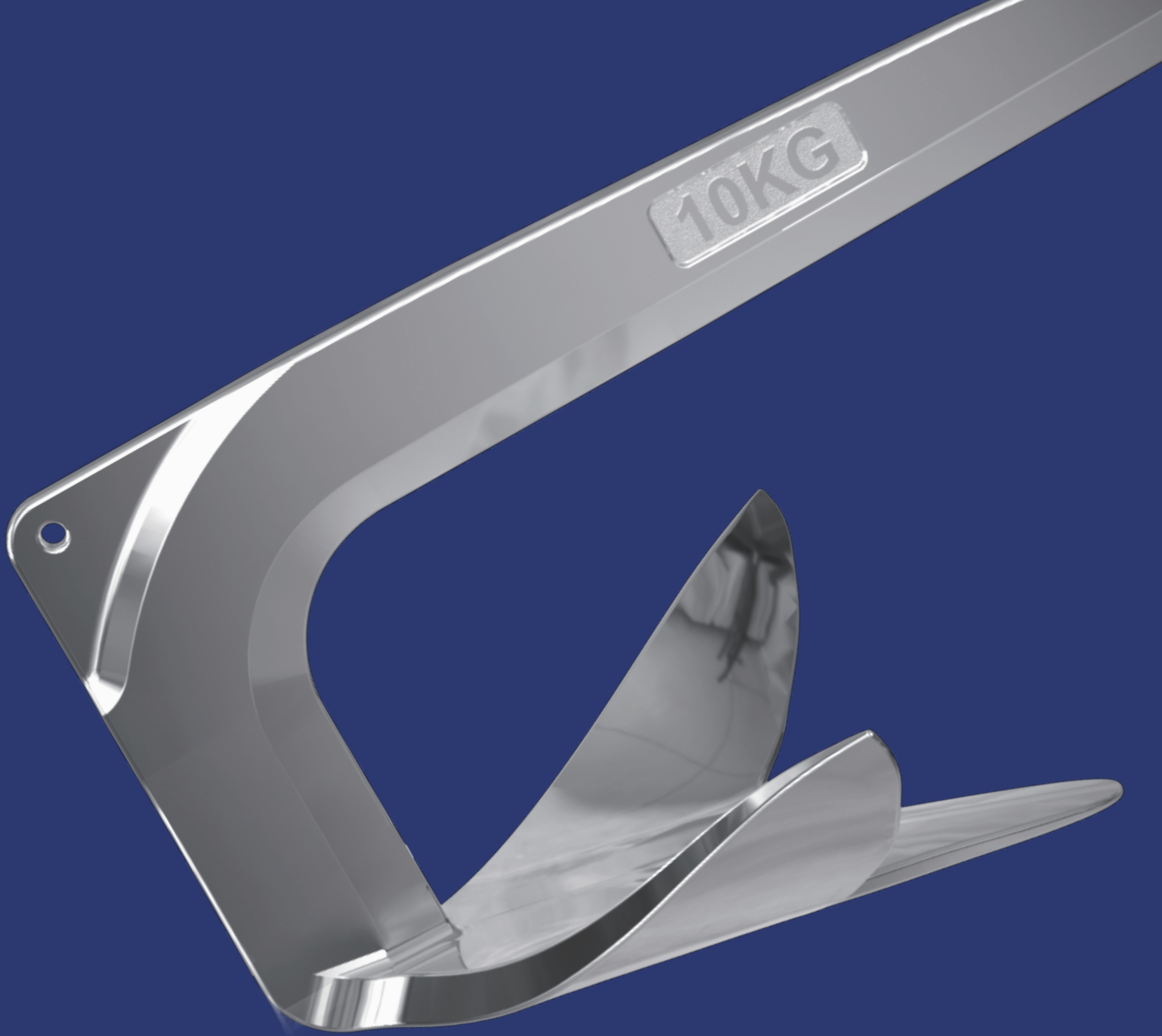
**3D Or 2D CAD FILES**  
We supply naval architects and boat builders with detailed CAD files of Bruce anchors to facilitate seamless integration into any vessel's anchoring system. Get in touch with us!

# 316 Stainless Steel Bruce Anchor

An ideal choice for performance, safety and beauty.

PART NO.	WEIGHT	A	B	C	D	E
MET-001-001-050	5 kg	470.5	236	183	18.5	303
MET-001-001-075	7.5 kg	537	265	204	21	352
MET-001-001-100	10 kg	592	292	234	24	389
MET-001-001-120	12 kg	595	309	263	25	436
MET-001-001-130	13 kg	597	308	272	24	448
MET-001-001-150	15 kg	685	333	268	26.5	454.5
MET-001-001-200	20 kg	749	368	265	29.5	525
MET-001-001-250	25 kg	808	393	288	29	568





### Accessory Size:

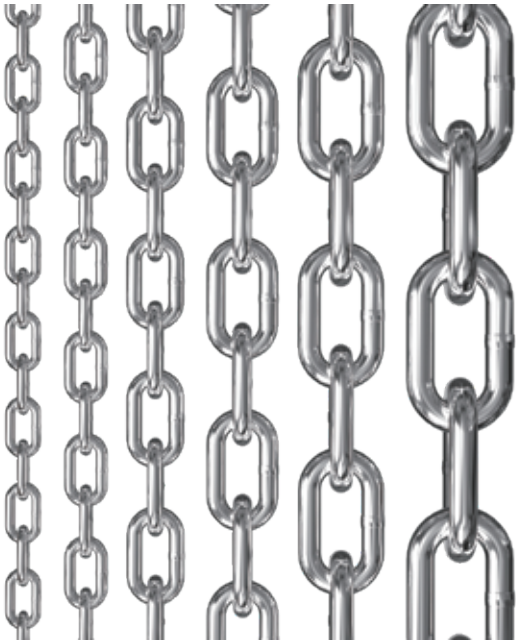
PART NO.	WEIGHT	RECOMMENDED CHAIN SIZE	ANCHOR SWIVEL SIZE	BOAT LENGTH
MET-001-001-05	5 kg	6	6-8	1-4m
MET-001-001-75	7.5 kg	6	6-8	5-7m
MET-001-001-10	10 kg	8	6-8	8-9m
MET-001-001-12	12 kg	8	6-8	8.5-9.5m
MET-001-001-13	13 kg	8	6-8	9.5-10.5m
MET-001-001-15	15 kg	8	6-8	10-11m
MET-001-001-20	20 kg	10	10-12	11-11.5m
MET-001-001-25	25 kg	10	10-12	10-12m

### Applicable Environment:

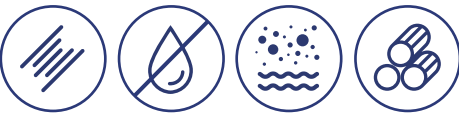
Sandy seabed	<div></div>	100%
Muddy seabed	<div></div>	100%
Sandy-mud seabed	<div></div>	100%
Pebble seabed	<div></div>	100%
Sea grass seabed	<div></div>	90%
Boulder seabed	<div></div>	90%

## Chain

High strength and durability.

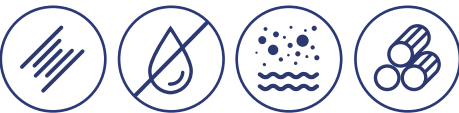


### #DIN766



PART NO.	NOMINAL CHAIN DIAMETER	WIRE DIAMETER	INNER LENGTH	INNER WIDTH	WEIGHT (KG/M)	BREAKING LOAD
MET-001-002-004	4	4	12	5	~0.4	12-15kn
MET-001-002-006	6	6	18	7.5	~0.9	28-35kn
MET-001-002-008	8	8	24	10	~1.6	50-60kn
MET-001-002-010	10	10	30	12.5	~2.5	80-95kn
MET-001-002-012	12	12	36	15	~3.6	115-135kn
MET-001-002-014	14	14	42	17.5	~4.9	155-180kn

### #G40



PART NO.	SIZE	NOMINAL CHAIN DIAMETER	INNER LENGTH	INNER WIDTH	WEIGHT (KG/M)	BREAKING LOAD
MET-001-002-1/4	1/4 inch	6.35	18.5	7.5	~0.9	22-25kn
MET-001-002-5/16	5/16 inch	7.94	23	9	~1.4	35-40kn
MET-001-002-3/8	3/8 inch	9.53	27.5	11	~2.3	50-60kn
MET-001-002-1/2	1/2 inch	12.7	36.5	14.5	~3.6	90-100kn
MET-001-002-5/8	5/8 inch	15.88	45.5	18	~5.5	140-160kn



# Anchor Swivel Connector

Multiple sizes to meet normal use.



Manual Mirror Polishing



Exceptional Corrosion Resistance



Pass standard salt-spray testing



316 Stainless Steel (Marine Grade Material)



## Production Process

Coating-Free Maintenance.  
Silica sol precision casting.

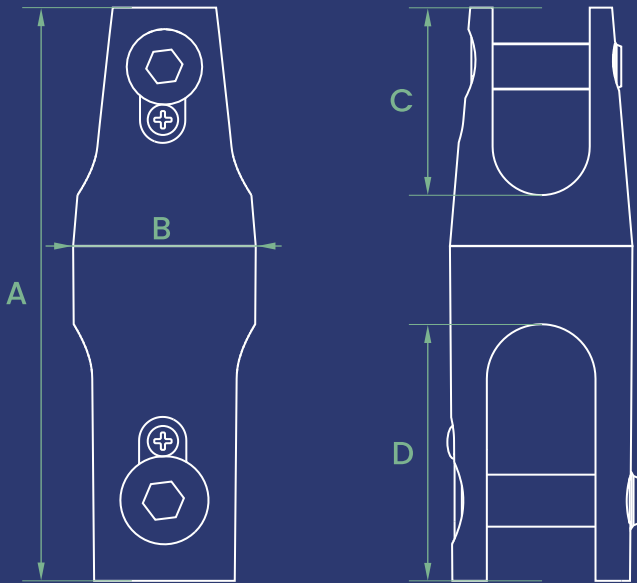
## Precision Casting

Minimal gap between connected parts,  
no sands or grass entanglement.

Fluent swivel ensures fast chain reset.

## Screw

Secure Anti-Loosening Screws.



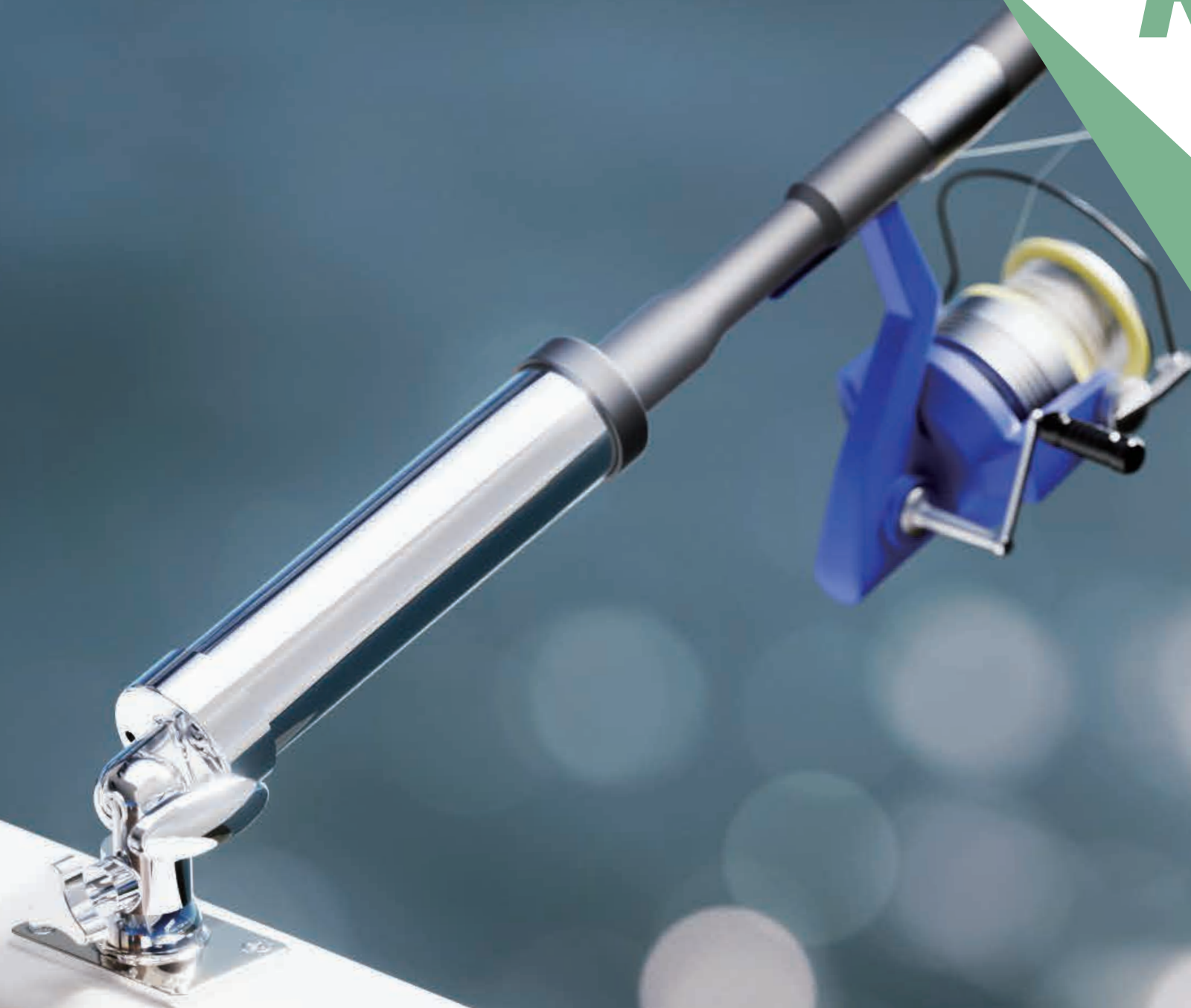
PART NO.	RECOMMENDED CHAIN SIZE	A	B	C	D	WORKING LOAD	BREAKING LOAD
MET-001-003-6	6-8 inch	84.5	29.5	22.5	37.5	900 kg(9kn)	3600 kg(36kn)
MET-001-003-10	10-12 inch	110.5	36	35.5	49	2200 kg(22kn)	7200 kg(72kn)



*Safety Mooring  
& Anchoring*



# *Rod Holder* 02



---

Lure Fishing Rod Holder  
Flush Fishing Rod Holder  
Adjustable Fishing Rod Holder  
Outrigger Rod Holder

# Lure Fishing Rod Holder

1 inch ,1-1/4 inch, Multiple sizes to meet normal use.



Manual Mirror Polishing



Exceptional Corrosion Resistance



316 Stainless Steel (Marine Grade Material)



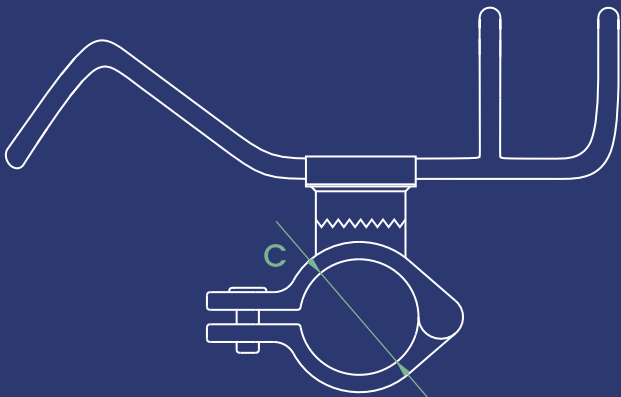
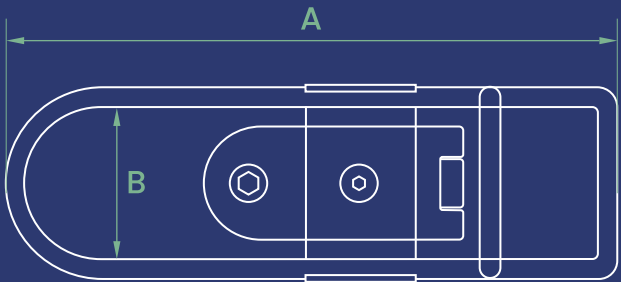
Pass standard salt-spray testing



## Heavy Duty Cast

More sturdy and durable.

PART NO.	SIZE	A	B	C
MET-001-025-025	For 1 inch	165	46	25
MET-001-025-032	For 1-1/4 inch	165	46	32



## 360° Adjustable

Mounting for your perfect rod angle.





# Flush Fishing Rod Holder

15° | 30° | 90° Multiple sizes to meet normal use.

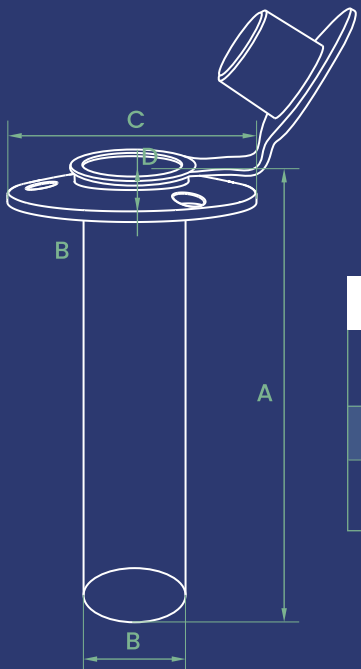
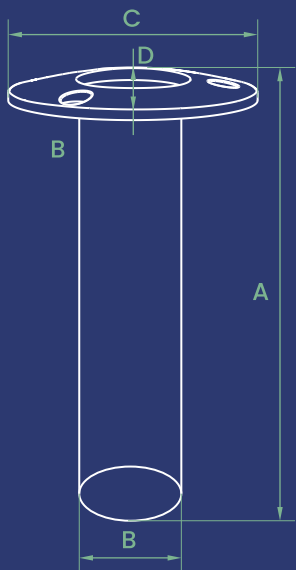


## Nesting

High Quality Nylon Nesting.

## Thickened Pipe Wall

1mm thick pipe wall, sturdy and durable.



PART NO.	SIZE	A	B	C	D	TUBE THICKNESS
MET-001-026-015	15 degree	220	51	108	87	1
MET-001-026-030	30 degree	220	51	108	87	1
MET-001-026-090	90 degree	220	51	108	87	1

PART NO.	SIZE	A	B	C	D	TUBE THICKNESS
MET-001-027-015	15 degree	220	51	108	87	1
MET-001-027-030	30 degree	220	51	108	87	1
MET-001-027-090	90 degree	220	51	108	87	1



Manual Mirror Polishing



Exceptional Corrosion Resistance



Pass standard salt-spray testing



316 Stainless Steel (Marine Grade Material)



# Adjustable Fishing Rod Holder

Ideal for harsh and demanding conditions.



Manual Mirror Polishing



Exceptional Corrosion Resistance



Pass standard salt-spray testing



316 Stainless Steel (Marine Grade Material)



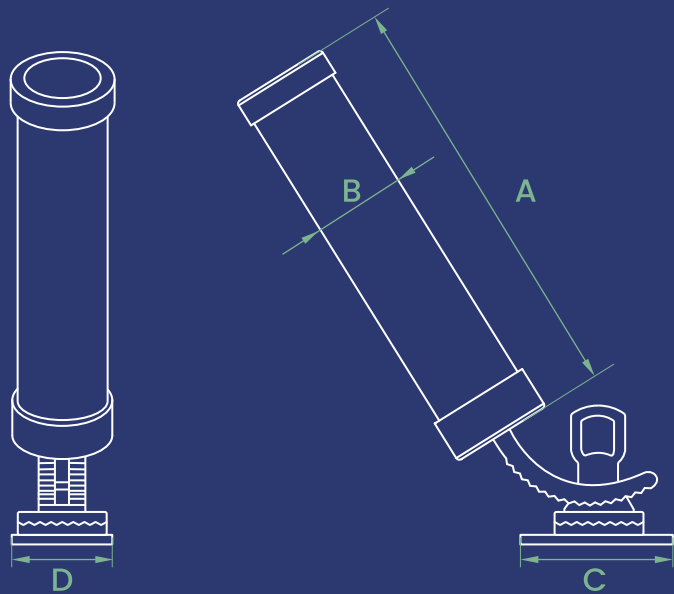
## Production Process

Silica sol precision casting.

## Adjustable

Adjustable with 360 Degree Rotation.

Separate adjustment for horizontal and vertical directions.



## Screw

Using a captive screw, the fishing rod holder will not fall off.

PART NO.	A	B	C	D
MET-001-027-025	240	51	90	60

# Adjustable Fishing Rod Holder

Ideal for harsh and demanding conditions.



Manual Mirror Polishing



Exceptional Corrosion Resistance



Pass standard salt-spray testing



316 Stainless Steel (Marine Grade Material)



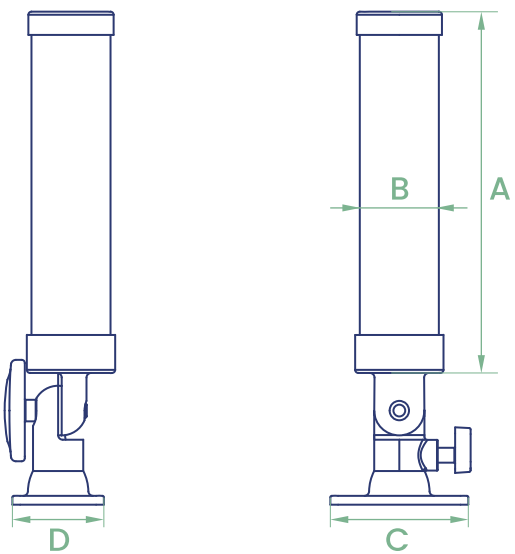
## Production Process

Silica sol precision casting.

## Adjustable

Adjustable with 360 Degree Rotation.

Separate adjustment for horizontal and vertical directions.



## Screw

Using a captive screw, the fishing rod holder will not fall off.

PART NO.	A	B	C	D
MET-001-028-025	240	51	90	60



# Adjustable Fishing Rod Holder

22mm/25mm/32mm Available in Multiple Sizes.



Manual Mirror Polishing



Exceptional Corrosion Resistance



Pass standard salt-spray testing



316 Stainless Steel (Marine Grade Material)



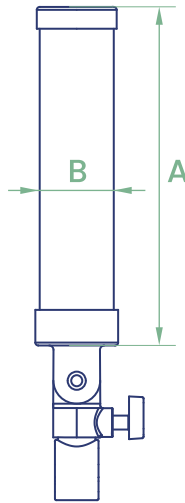
## Production Process

Silica sol precision casting.

## Adjustable

Adjustable with 360 Degree Rotation.

Separate adjustment for horizontal and vertical directions.



## Screw

Using a captive screw, the fishing rod holder will not fall off.

PART NO.	SIZE	A	B
MET-001-029-022	For 7/8 inch	240	51
MET-001-029-025	For 1 inch	240	51
MET-001-029-032	For 1-1/4 inch	240	51

# Adjustable Fishing Rod Holder

22mm/25mm/32mm Available in Multiple Sizes.



Manual Mirror Polishing



Exceptional Corrosion Resistance



Pass standard salt-spray testing



316 Stainless Steel (Marine Grade Material)



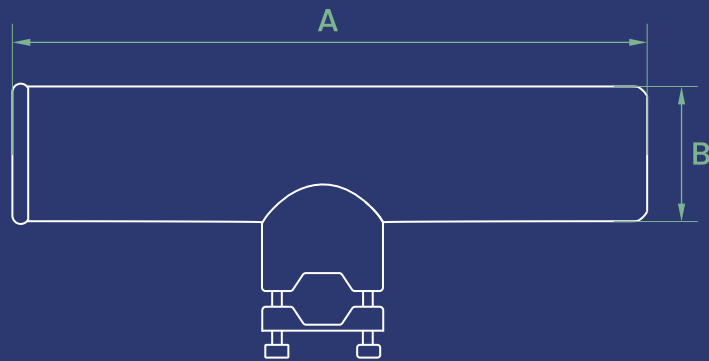
## Production Process

Silica sol precision casting.

## Adjustable

Adjustable with 360 Degree Rotation.

Separate adjustment for horizontal and vertical directions.



## Nylon Nesting

Protect your fishing rod from any wear against the stainless surace.

PART NO.	SIZE	A	B
MET-001-029-022	For 7/8 inch	240	51
MET-001-029-025	For 1 inch	240	51
MET-001-029-032	For 1-1/4 inch	240	51



# Outrigger Rod Holder

Ideal for harsh and demanding conditions.

## Process

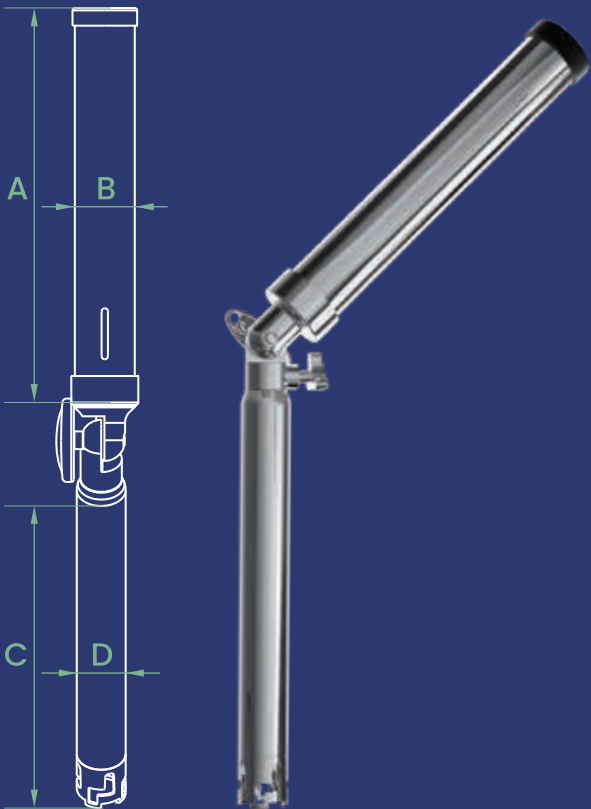
Silica sol precision casting.  
Coating-Free Maintenance.

## Secure & Stable

Ensures a firm grip on your fishing rods, even in rough waters.

## Compatibility

Works with most standard outrigger bases for seamless integration.



### 180° Adjustable

Swivel knob for rotating through 180 degree vertical axis.



### 360° Adjustable

Swivel knob for rotating through 360 degree horizontal axis.

PART NO.	A	B	C	D
MET-001-030-100	240	51	293	40



Manual Mirror Polishing



Exceptional Corrosion Resistance



316 Stainless Steel  
(Marine Grade Material)



Pass standard salt-spray testing

# ***Boat Cleat***



---

Boat Open Base Cleat  
Boat Pull Up Cleat  
Boat Flip Up Cleat  
99012 Boat Cleat  
Boat Open Base Cleat  
Boat Folding Cleat  
Boat Pull Up Cleat



# Boat Open Base Cleat

Heavy-duty design.  
Suitable for medium and small vessels.



Manual Mirror  
Polishing



Exceptional  
Corrosion Resistance



Pass standard  
salt-spray testing



316 Stainless Steel  
(Marine Grade Material)

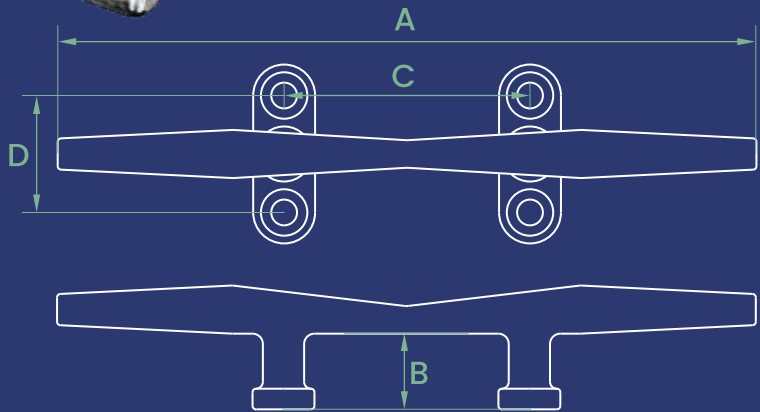
## Performance

Coating free protection.

The base plate is formed with a  
high flatness, ensuring no edge  
curling.

## Long Life

The curved surface evenly distributes  
tensile force, reducing rope abrasion  
and extending the rope's lifespan.



PART NO.	SIZE	A	B	C	D	SCREW	W
MET-001-004-004	4 inch	107	20.5	50	24.8	Φ4.8×25mm	91g
MET-001-004-005	5 inch	122	17.4	54	24	Φ4.8×25mm	118g
MET-001-004-006	6 inch	152	18.5	56.5	27.5	Φ4.8×25mm	181g
MET-001-004-008	8 inch	203	22	71.5	35	M6	369g
MET-001-004-010	10 inch	251	28.5	93	45.5	M8	605g
MET-001-004-012	12 inch	310	35.5	103.3	52	M8	1106g

# Boat Pull Up Cleat

An ideal choice for performance, safety and beauty.



Manual Mirror Polishing



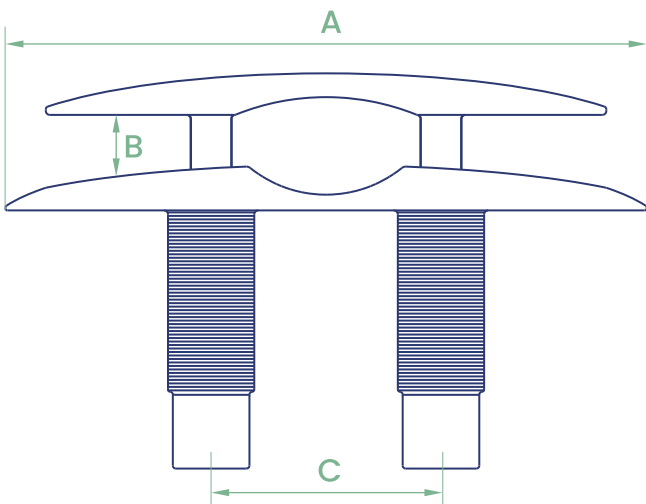
Exceptional Corrosion Resistance



Pass standard salt-spray testing



316 Stainless Steel (Marine Grade Material)



PART NO.	SIZE	A	B	C	W
MET-001-011-005	5 inch	125	12	48	603g
MET-001-011-006	6 inch	158	17	58	722g

## Aesthetic Design

Hidden handle saves space, ensuring safety and beauty.

## Performance

Streamlined Design with Smooth Edges. Coating free protection.

## Flush Mount

Retractable Design. Perfect alignment between the pull up handle and base with minimal gap.



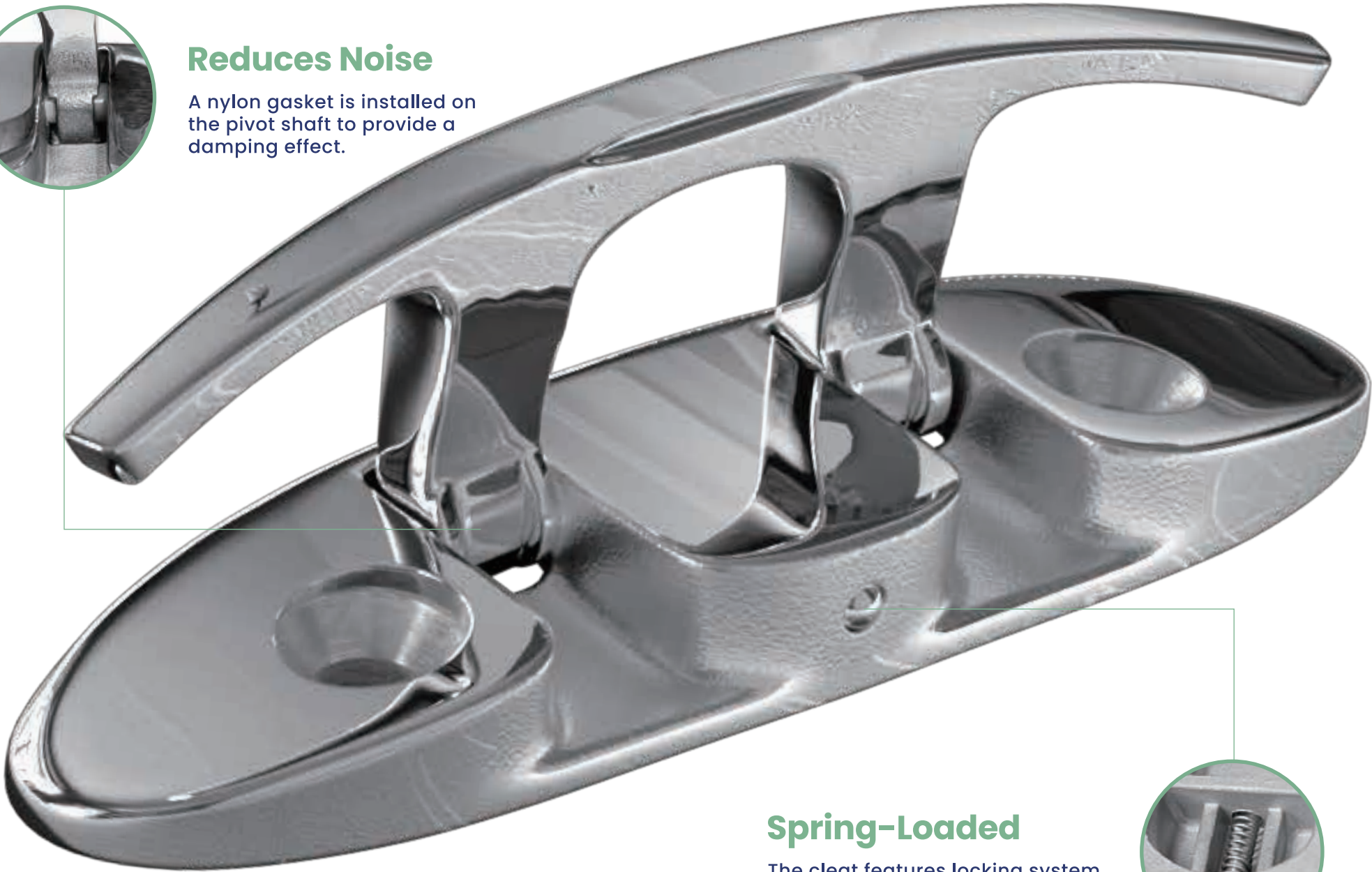
# Boat Flip Up Cleat

An ideal choice for performance, safety and beauty.



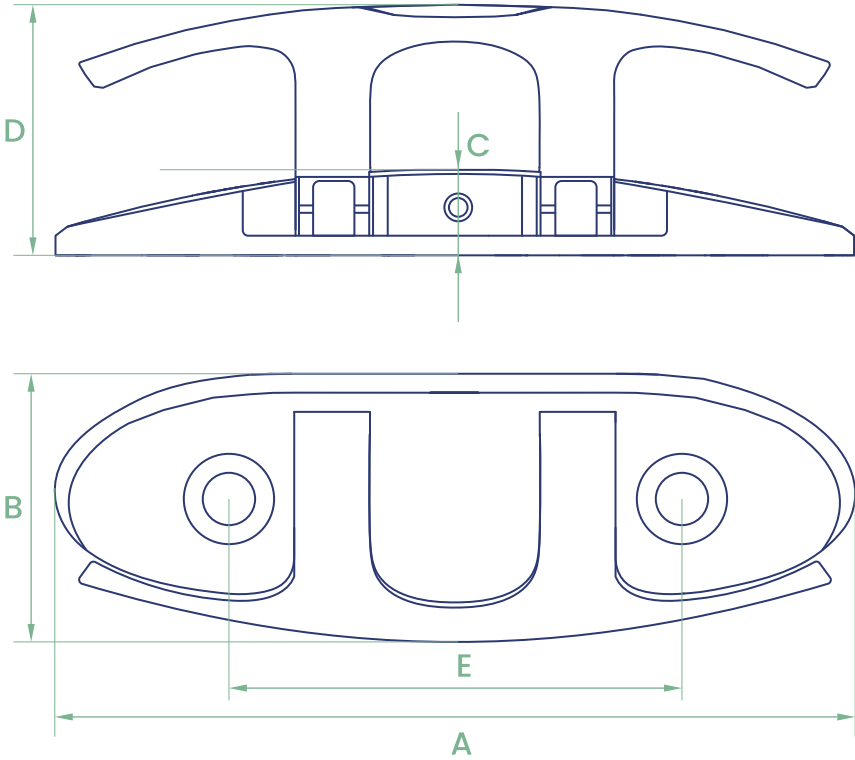
## Reduces Noise

A nylon gasket is installed on the pivot shaft to provide a damping effect.



## Spring-Loaded

The cleat features locking system through removable pin.



PART NO.	SIZE	A	B	C	D	E	SCREW	W
MET-001-007-005	4.5 inch	119	42	14	38.8	68	M6	202g
MET-001-007-006	6 inch	155	48	15.5	45.6	76.3	M6	353g

## Performance

Streamlined Design with Smooth Edges.

## Safety Function

Coating free protection. Perfect alignment with deck when folded, avoiding stumbling, especially suitable for compact boats or frequent deck activities.

## Aesthetic Design

Folding design with hidden handle.



Manual Mirror Polishing



Exceptional Corrosion Resistance



316 Stainless Steel (Marine Grade Material)



Pass standard salt-spray testing

# 99012 Boat Cleat

An ideal choice for performance, safety and beauty.



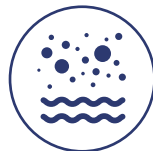
Manual Mirror  
Polishing



Exceptional Corrosion  
Resistance



316 Stainless Steel  
(Marine Grade Material)



Pass standard  
salt-spray testing



## Safety Function

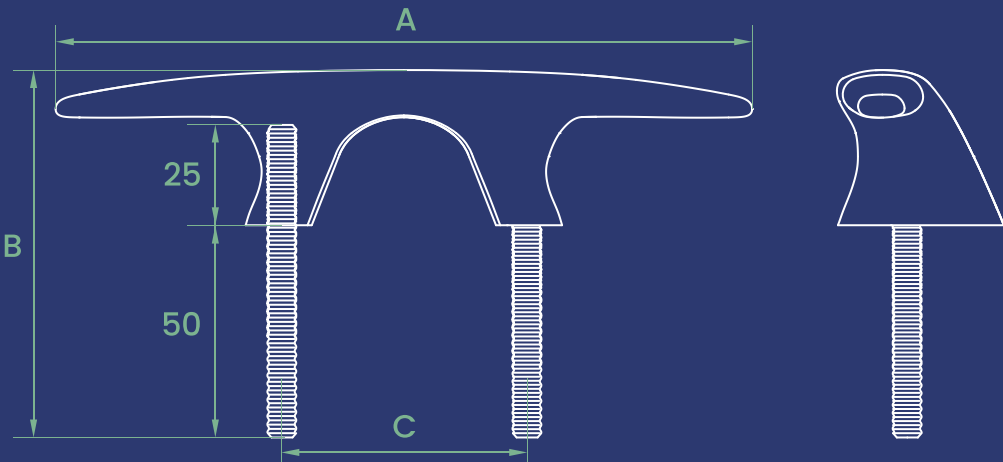
Gravity-tilted inward for a secure hold — no rope slippage, just consistent tension.

## Heavy-duty Design

Cast in a single piece for enhanced strength.  
Asymmetrical design reflects individuality and character.

## Long Life

Streamlined design and smooth edges minimize rope abrasion.



PART NO.	SIZE	A	B	C	SCREW	W
MET-001-008-006	6 inch	162.4	85.5	55.8	M8	420g



# Boat Open Base Cleat

An ideal choice for performance,safety and beauty.



Manual Mirror Polishing



Exceptional Corrosion Resitance



Pass standard salt-spray testing



316 Stainless Steel (Marine Grade Material)



## Performance

Smooth edges minimize rope abrasion.

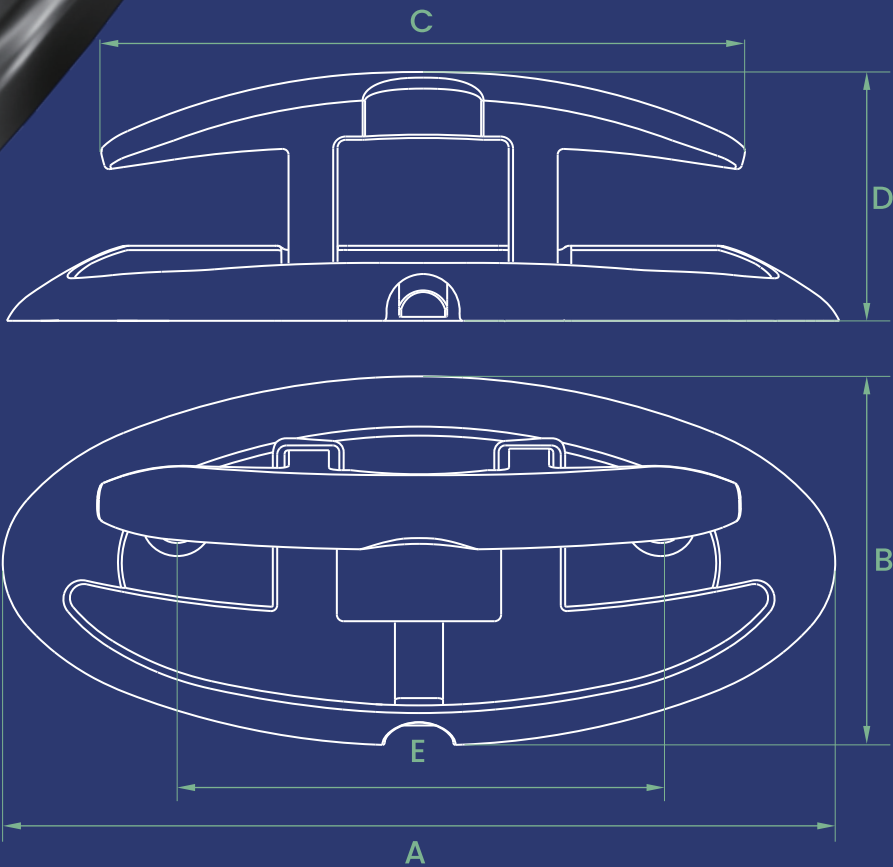
## Safety Function

Coating free protection.

Perfect alignment with deck when folded, avoiding stumbling,especially suitable for compact boats or frequent deck activities.

## Aesthetic Design

Folding design with pop-up handle.



PART NO.	SIZE	A	B	C	D	E	SCREW	W
MET-001-009-008	8 inch	192	83	145.5	55	111.9	M8	772.3g





Manual Mirror  
Polishing



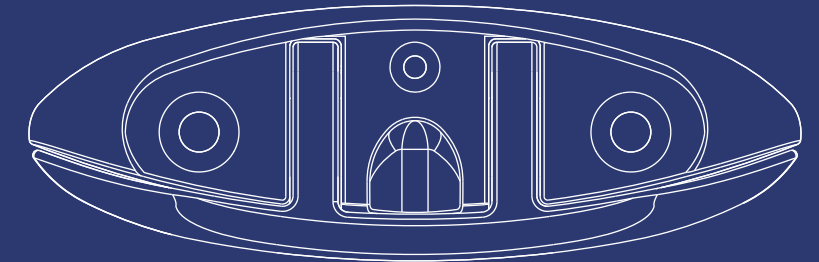
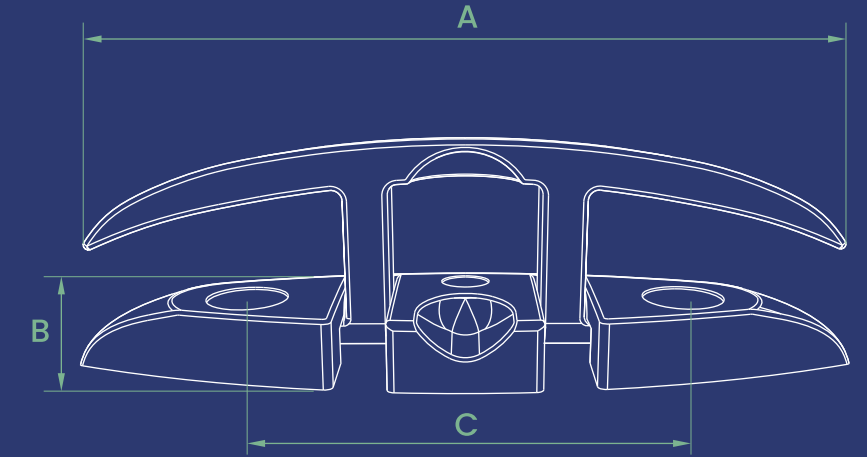
Exceptional Corrosion  
Resistance



316 Stainless Steel  
(Marine Grade Material)



Pass standard  
salt-spray testing



PART NO.	SIZE	A	B	C	SCREW	W
MET-001-010-005	5 inch	123.5	36.5	71	M6&M4	207g
MET-001-010-006	6 inch	153	42	86.5	M8&M5	378g
MET-001-010-008	8 inch	218	62	120	M10&M6	650g

## Boat Folding Cleat

An ideal choice for performance,  
safety and beauty.

### Performance

The bottom spring plate is made of high-quality spring steel.

### Safety Function

Coating free protection.

Perfect alignment with deck when folded, avoiding stumbling, especially suitable for compact boats or frequent deck activities.

### Aesthetic Design

Folding design with hidden handle.



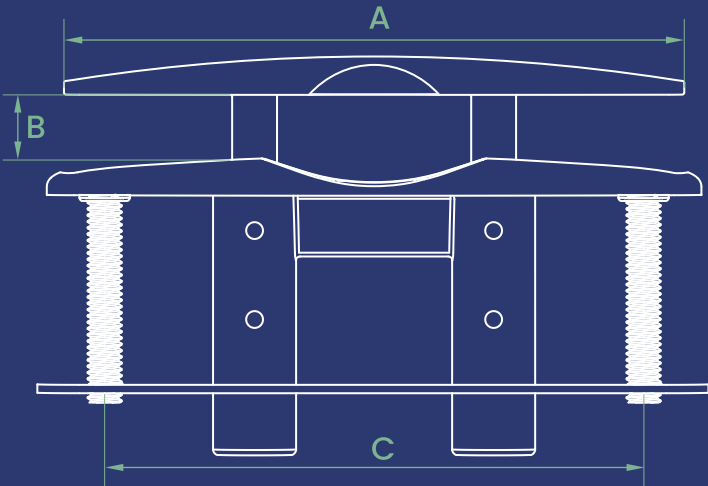


# Boat Pull Up Cleat

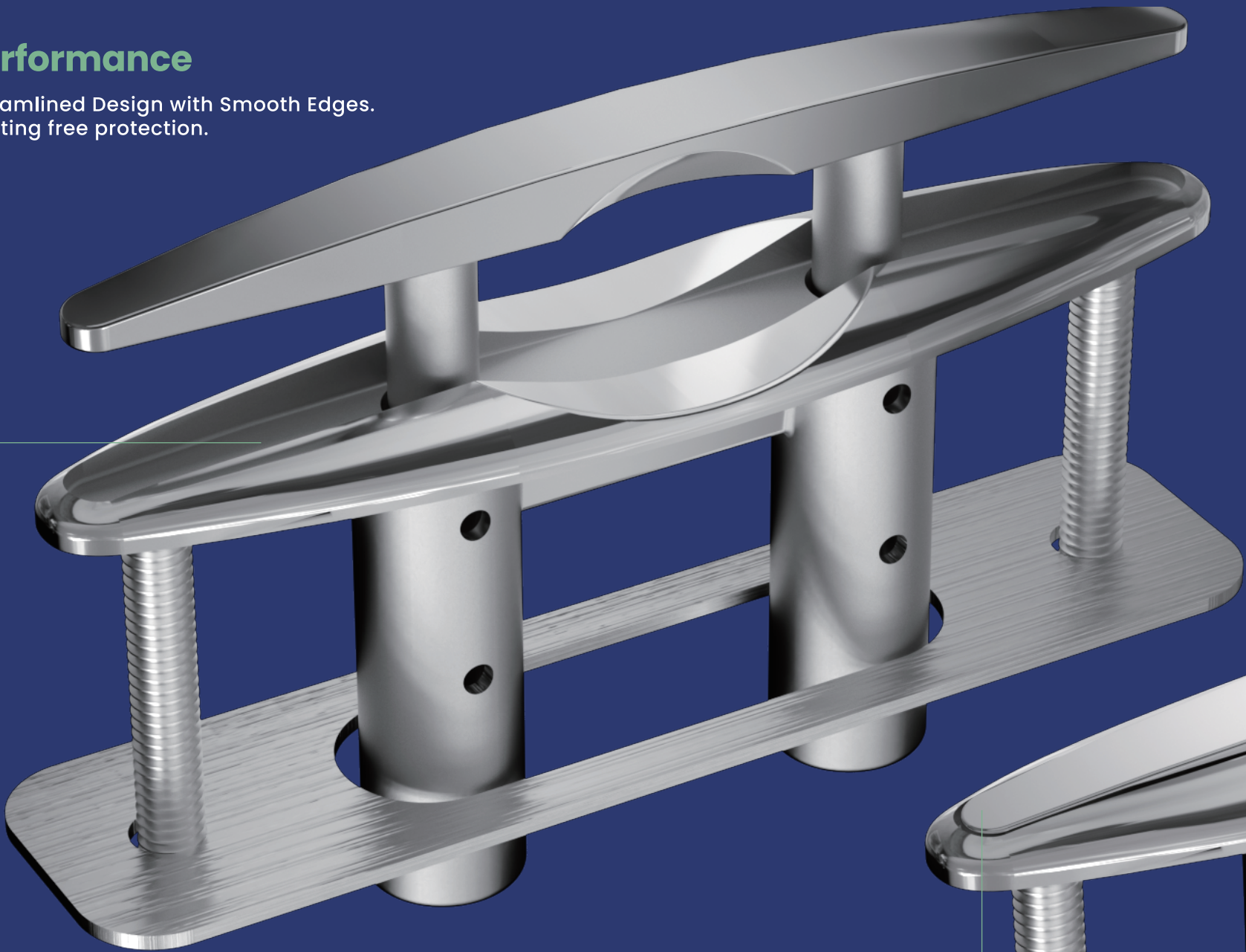
An ideal choice for performance, safety and beauty.

## Performance

Streamlined Design with Smooth Edges.  
Coating free protection.



PART NO.	SIZE	A	B	C	SCREW	W
MET-001-011-005	5 inch	113.5	12	98.5	M6	363.5g
MET-001-011-006	6 inch	147.5	17	128.5	M8	536.7g



## Flush Mount

Retractable Design.  
Perfect alignment between the pull up handle and  
base with minimal gap.



## Washer

Big installation washer provide larger loads.

- 

Manual Mirror  
Polishing
- 

Exceptional Corrosion  
Resistance
- 

316 Stainless Steel  
(Marine Grade Material)
- 

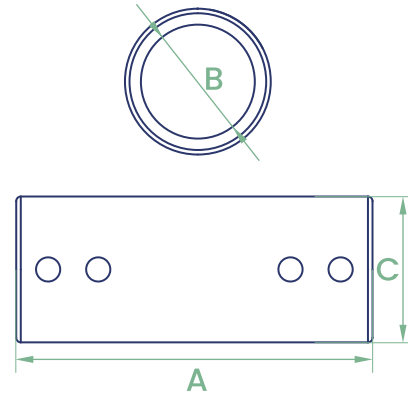
Pass standard  
salt-spray testing



Straight Connector  
60° T Elbow  
2-Way 90° Elbow  
T Elbow  
90° 4-Way Elbow  
Cross Elbow  
90° 3-Way Elbow  
Handrail Round Base





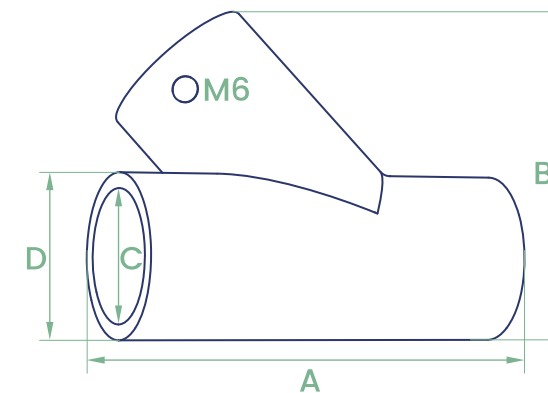


## #Straight Connector

Coating-Free Maintenance.  
Silica sol precision casting.  
Metric Screws/Imperial Screws(Free choice).  
Multiple sizes, multiple angles, available for selection.  
Standard CNC machining with precise dimensions and excellent fit.  
7/8 in, 1 in, 1-1/4 in are available for selection.



PART NO.	SIZE	A	B	C
MET-001-018-022	For 7/8 inch Pipe	77	22.8	28.8
MET-001-018-025	For 1 inch Pipe	78	25.8	32
MET-001-018-032	For 1-1/4 inch Pipe	100	32.5	38.9

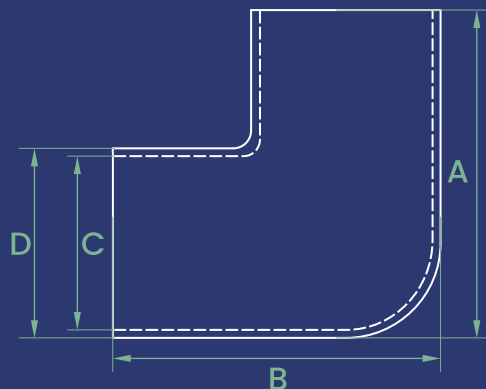


## #60° T Elbow

Coating-Free Maintenance.  
Silica sol precision casting.  
Metric Screws/Imperial Screws(Free choice).  
Multiple sizes, multiple angles, available for selection.  
Standard CNC machining with precise dimensions and excellent fit.  
7/8 in, 1 in, 1-1/4 in are available for selection.



PART NO.	SIZE	A	B	C	D
MET-001-020-022	For 7/8 inch Pipe	77	48	22.8	28.8
MET-001-020-025	For 1 inch Pipe	78	51.36	25.8	32
MET-001-020-032	For 1-1/4 inch Pipe	85	63	32.5	39

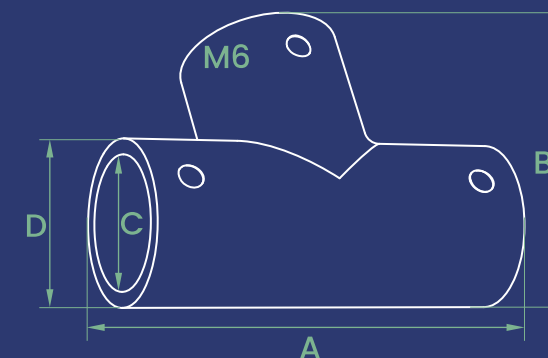


## #2-Way 90° Elbow

Coating-Free Maintenance.  
Silica sol precision casting.  
Metric Screws/Imperial Screws(Free choice).  
Multiple sizes, multiple angles, available for selection.  
Standard CNC machining with precise dimensions and excellent fit.  
7/8 in, 1 in, 1-1/4 in are available for selection.



PART NO.	SIZE	A	B	C	D
MET-001-019-022	For 7/8 inch Pipe	53	53	22.8	28.8
MET-001-019-025	For 1 inch Pipe	55	55	25.8	31.8
MET-001-019-032	For 1-1/4 inch Pipe	62	62	32.5	38.5



## #T Elbow

Coating-Free Maintenance.  
Silica sol precision casting.  
Metric Screws/Imperial Screws(Free choice).  
Multiple sizes, multiple angles, available for selection.  
Standard CNC machining with precise dimensions and excellent fit.  
7/8 in, 1 in, 1-1/4 in are available for selection.

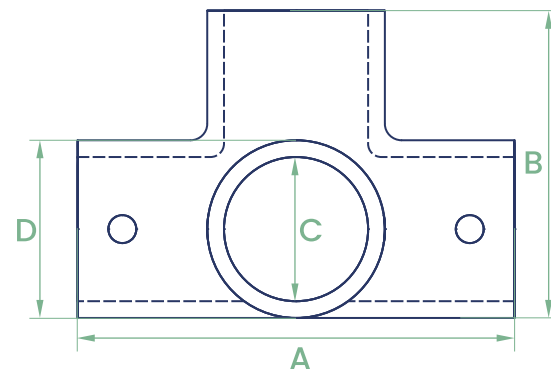


PART NO.	SIZE	A	B	C	D
MET-001-021-022	For 7/8 inch Pipe	77	53	22.8	28.8
MET-001-021-025	For 1 inch Pipe	78	55	25.8	31.8
MET-001-021-032	For 1-1/4 inch Pipe	85	62	32.5	38.5



## #90° 4-Way Elbow

Coating-Free Maintenance.  
Silica sol precision casting.  
Metric Screws/Imperial Screws(Free choice).  
Multiple sizes, multiple angles, available for selection.  
Standard CNC machining with precise dimensions and excellent fit.  
7/8 in, 1 in, 1-1/4 in are available for selection.

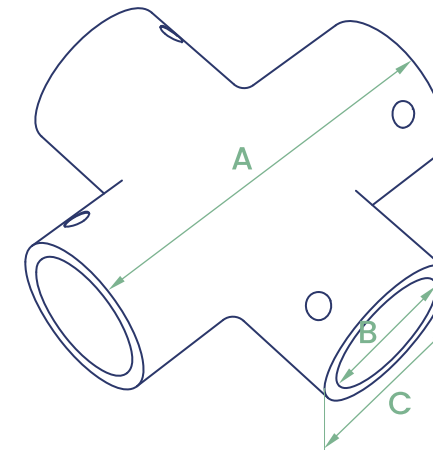


PART NO.	SIZE	A	B	C	D
MET-001-022-022	For 7/8 inch Pipe	77	53	22.8	28.8
MET-001-022-025	For 1 inch Pipe	78	55	25.8	31.8
MET-001-022-032	For 1-1/4 inch Pipe	85.8	62	32.5	38.5



## #Cross Elbow

Coating-Free Maintenance.  
Silica sol precision casting.  
Metric Screws/Imperial Screws(Free choice).  
Multiple sizes, multiple angles, available for selection.  
Standard CNC machining with precise dimensions and excellent fit.  
7/8 in, 1 in, 1-1/4 in are available for selection.

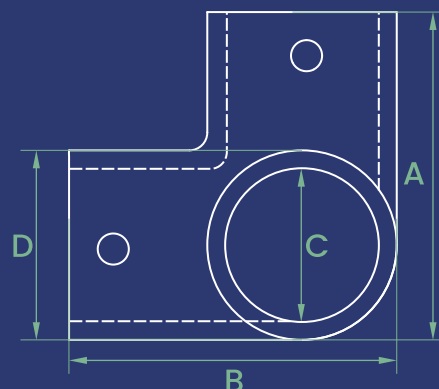


PART NO.	SIZE	A	B	C
MET-001-024-022	For 7/8 inch Pipe	77	22.8	28.8
MET-001-024-025	For 1 inch Pipe	78	25.8	31.8
MET-001-024-032	For 1-1/4 inch Pipe	85.8	32.5	38.5



## #90° 3-Way Elbow

Coating-Free Maintenance.  
Silica sol precision casting.  
Metric Screws/Imperial Screws(Free choice).  
Multiple sizes, multiple angles, available for selection.  
Standard CNC machining with precise dimensions and excellent fit.  
7/8 in, 1 in, 1-1/4 in are available for selection.

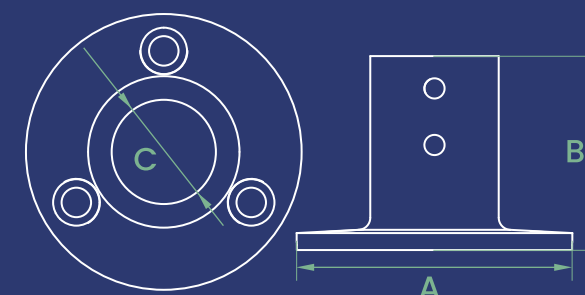


PART NO.	SIZE	A	B	C	D
MET-001-023-022	For 7/8 inch Pipe	53	53	22.8	28.8
MET-001-023-025	For 1 inch Pipe	55	55	25.8	31.8
MET-001-023-032	For 1-1/4 inch Pipe	62	62	32.5	38.5



## #Handrail Round Base

Coating-Free Maintenance.  
Silica sol precision casting.  
Metric Screws/Imperial Screws(Free choice).  
Multiple sizes, multiple angles, available for selection.  
Standard CNC machining with precise dimensions and excellent fit.  
7/8 in, 1 in, 1-1/4 in are available for selection.



PART NO.	SIZE	A	B	C
MET-001-025-022	For 7/8 inch Pipe	65.4	50.6	22.8
MET-001-025-025	For 1 inch Pipe	68.2	48	25.8
MET-001-025-032	For 1-1/4 inch Pipe	74.5	74.5	32.5





# ***Awning Acc***

---

Boat Bimini Top Cap  
Boat Bimini Jaw Slide  
Boat Bimini Deck Hinge

# Boat Bimini Top Cap

3/4 inch, 7/8 inch, 1 inch , 1-1/4 inch,  
Multiple sizes to meet normal use.



Manual Mirror  
Polishing



Exceptional  
Corrosion Resitance



Pass standard  
salt-spray testing



316 Stainless Steel  
(Marine Grade Material)



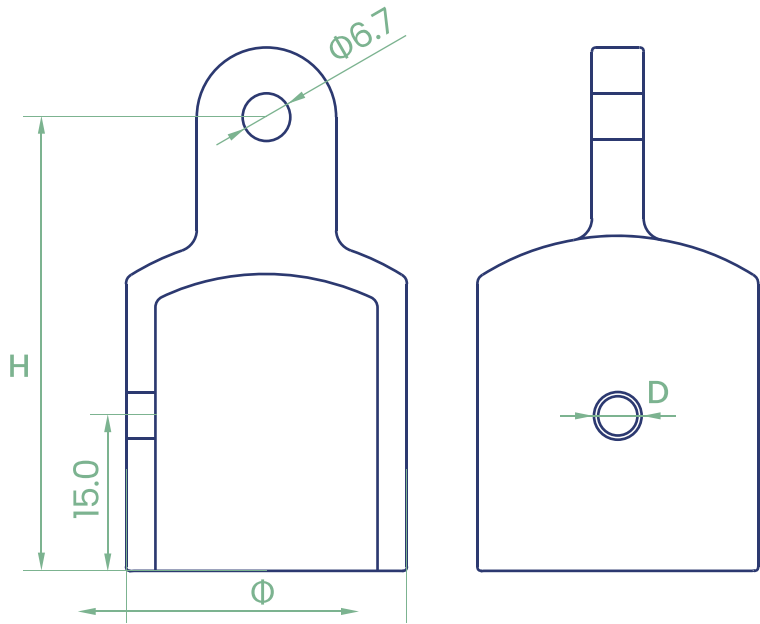
## Production Process

Coating-Free Maintenance.  
Silica sol precision casting.

## Precision Casting

CNC-machined inner wall  
ensures precise dimensions.

Enables seamless installation.



PART NO.	SIZE	Φ	D	H	W
MET-001-012B-022	For 7/8 inch	Φ22.8	1/4"-28	49.5	95g
MET-001-012B-025	For 1 inch	Φ25.8	1/4"-28	50	102g
MET-001-012B-032	For 1-1/4 inch	Φ32.4	1/4"-28	60	152g

## Screw

Metric Screws/Imperial  
Screws(Free choice).

# Boat Bimini Top Cap

3/4 inch, 7/8 inch, 1 inch , 1-1/4 inch,  
Multiple sizes to meet normal use.



Manual Mirror  
Polishing



Exceptional  
Corrosion Resitance



Pass standard  
salt-spray testing



316 Stainless Steel  
(Marine Grade Material)



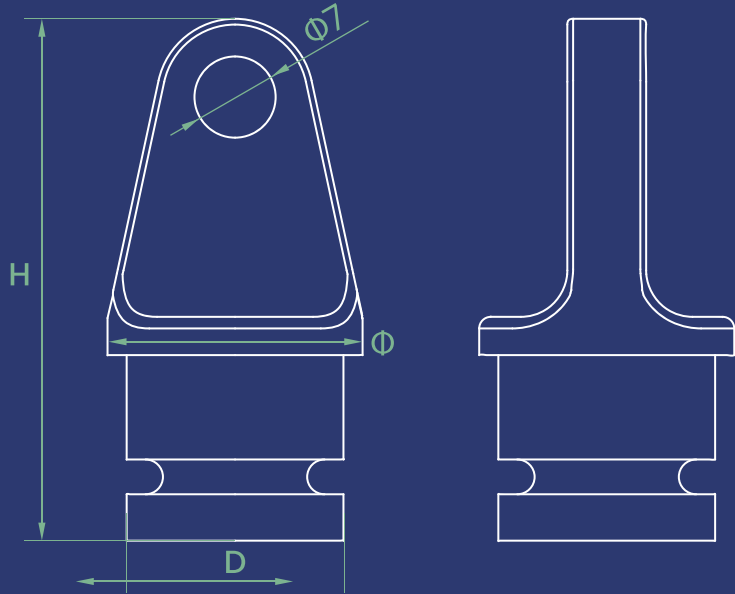
## Production Process

Coating-Free Maintenance.  
Silica sol precision casting.

## Precision Casting

CNC-machined inner wall  
ensures precise dimensions.

Enables seamless installation.



PART NO.	SIZE	Φ	D	H	W
MET-001-012B-022id	For 7/8 inch	Φ22	Φ17	33.5	57g
MET-001-012B-025id	For 1 inch	Φ22	Φ18.8	45	60.5g
MET-001-012B-032id	For 1-1/4 inch	Φ22	Φ19.3	45	64g

## Screw

Metric Screws/Imperial  
Screws(Free choice).



# Boat Bimini Jaw Slide

Multiple sizes to meet normal use.



Manual Mirror Polishing



Exceptional Corrosion Resitance



Pass standard salt-spray testing



316 Stainless Steel (Marine Grade Material)



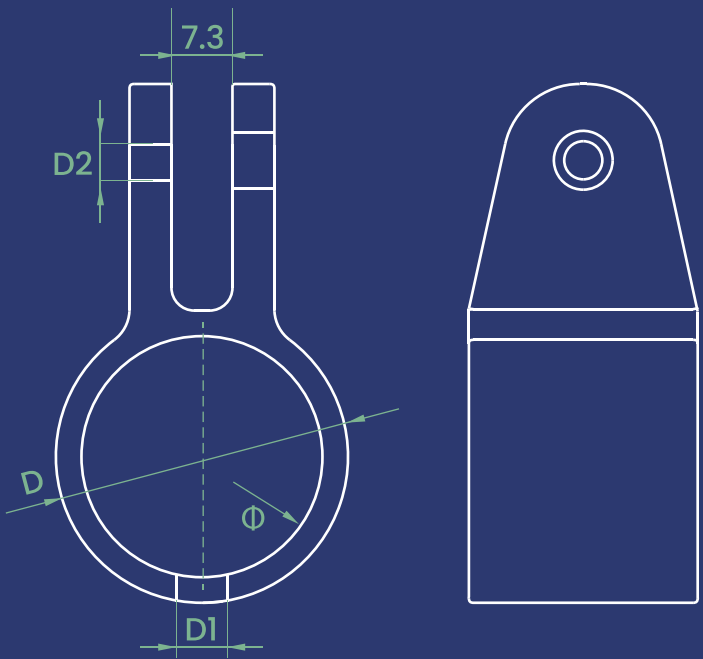
## Production Process

Coating-Free Maintenance.  
Silica sol precision casting.

## Precision Casting

CNC-machined inner wall ensures precise dimensions.

Enables seamless installation.



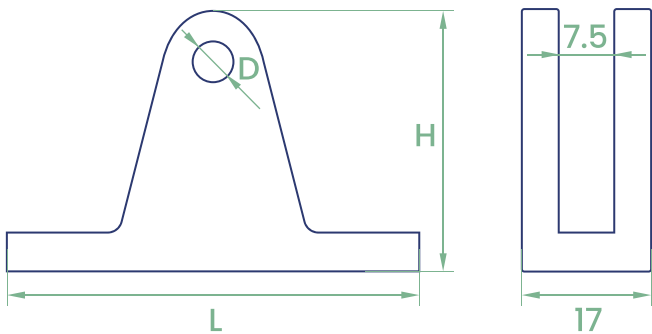
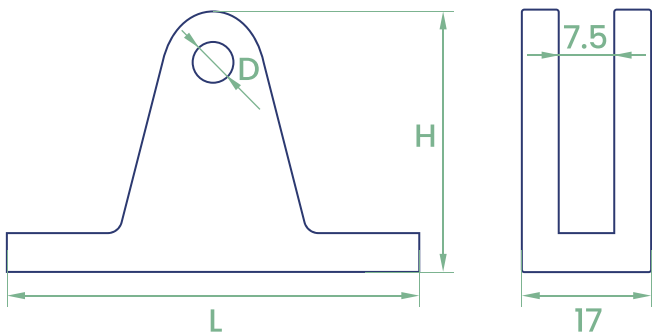
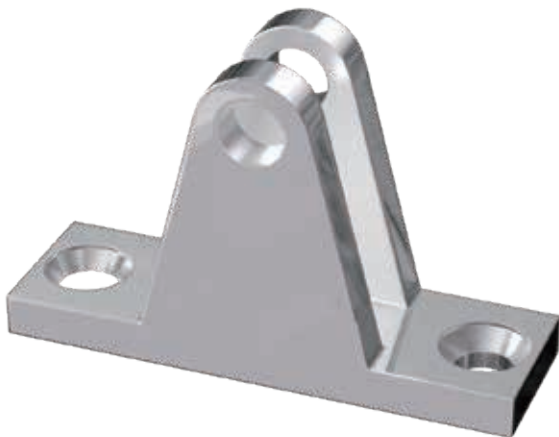
PART NO.	SIZE	Φ	D	D1	D2	W
MET-001-015-022	For 7/8 inch	Φ22.8	Φ30	1/4"-28	1/4"-20	94g
MET-001-015-025	For 1 inch	Φ25.8	Φ33	1/4"-28	1/4"-20	108g
MET-001-015-032	For 1-1/4 inch	Φ32.5	Φ38	1/4"-28	1/4"-20	138g

## Screw

Metric Screws/Imperial Screws (Free choice).

# Boat Bimini Deck Hinge

Boat Bimini Deck Hing bottom milling machine processing.



## #No Pin

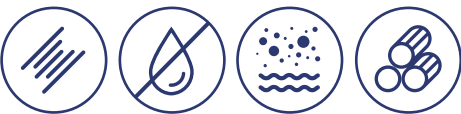
Silica sol precision casting.  
Coating-Free Maintenance.  
Enables seamless installation.  
With screws and various spare parts.



PART NO.	H	L	D	W
MET-001-016-001	35	55	1/4"-20	75g

## #With Pin

Silica sol precision casting.  
Coating-Free Maintenance.  
Enables seamless installation.  
With screws, locking pins, and various spare parts.



PART NO.	H	L	D	W
MET-001-016-002	36	55	6.8	75g



# *Hinge* 6

2699 Hinge  
5989 Hinge  
4747 Hinge  
3838/5050 Hinge  
3050 Hinge  
5055 Hinge  
7550 Hinge  
7638 Hinge  
T Hinge







# 2699 Hinge

Silent hinges, no noise.



Manual Mirror Polishing



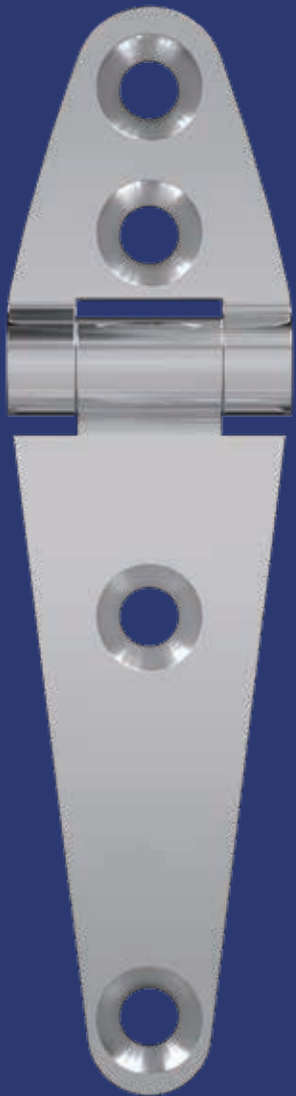
Exceptional Corrosion Resitance



Pass standard salt-spray testing



316 Stainless Steel (Marine Grade Material)

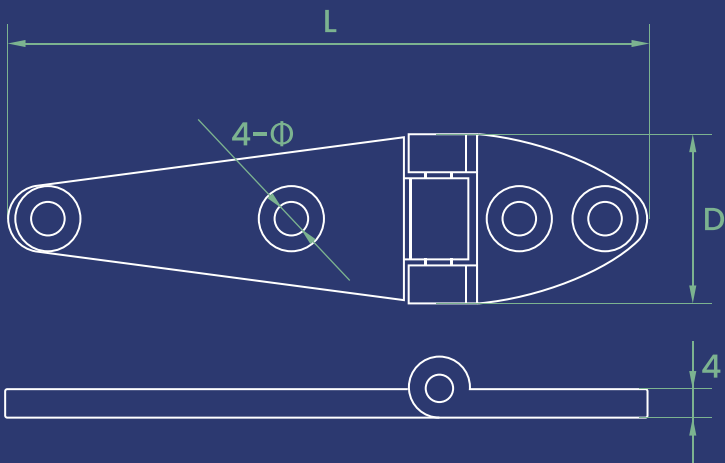


## Production Process

Silica sol precision casting.

## Multipurpose

For yachts, ships & home – applies to multiple usages.



## Screw

Enables seamless installation.

PART NO.	D	L	Φ	W
MET-001-017-001	26	99	5.5	46g

Engineered For  
Durability & Strength

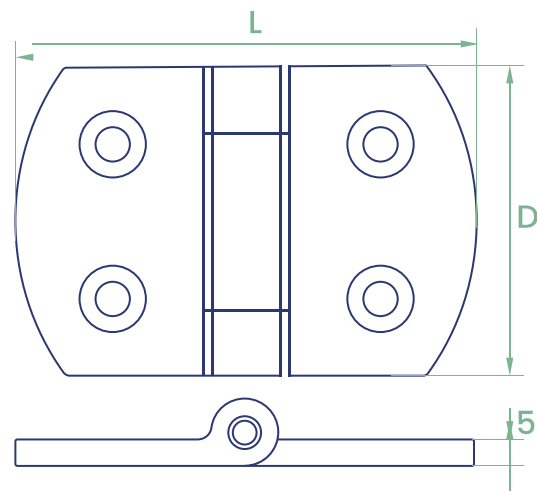


## #5989 Hinge

Silica sol precision casting.  
Enables seamless installation.  
Silent hinges, no noise.  
For yachts, ships & home- applies  
to multiple usages.



PART NO.	D	L	Φ	W
MET-001-017-002	59	89	Φ6.5	204g

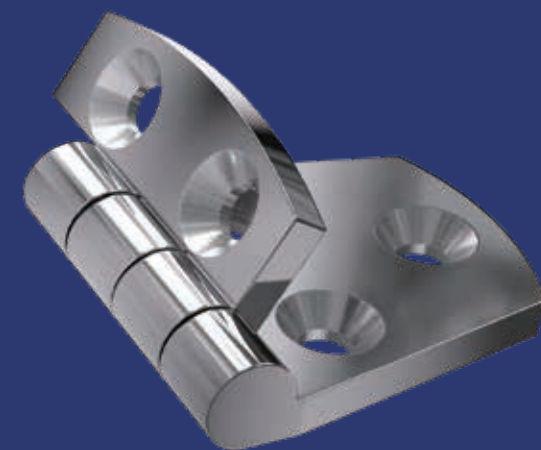
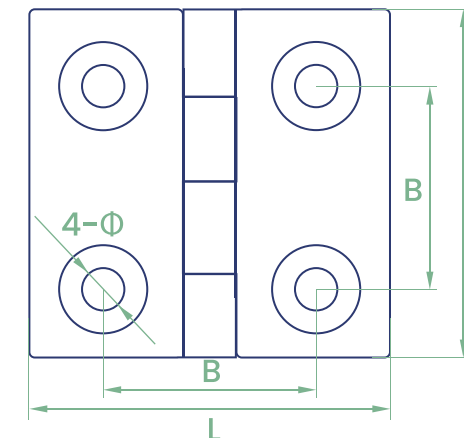


## #3838/5050 Hinge

Silica sol precision casting.  
Enables seamless installation.  
Silent hinges, no noise.  
For yachts, ships & home- applies  
to multiple usages.



PART NO.	L	B	Φ	W
MET-001-017-004	38	23	Φ5.2	51g
MET-001-017-005	50	30	Φ5.2	93g

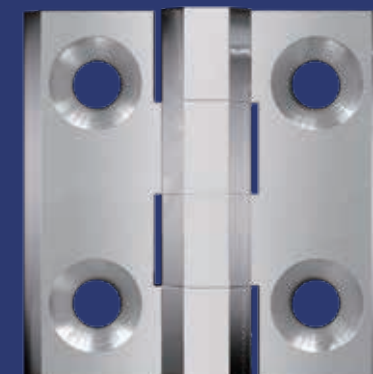
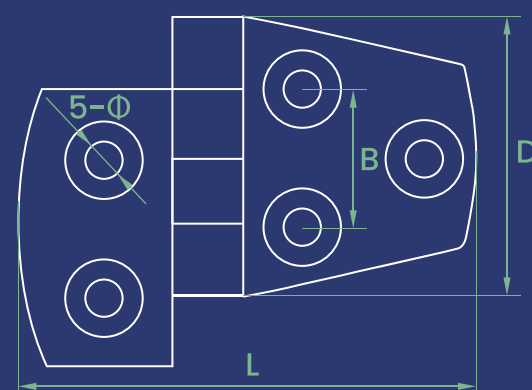


## #4757 Hinge

Silica sol precision casting.  
Enables seamless installation.  
Silent hinges, no noise.  
For yachts, ships & home - applies  
to multiple usages.



PART NO.	D	L	Φ	W
MET-001-017-003	47.5	57	Φ5.2	55g

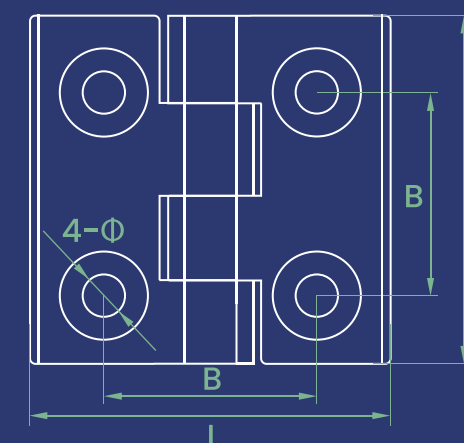


## #3050 Hinge

Silica sol precision casting.  
Enables seamless installation.  
Silent hinges, no noise.  
For yachts, ships & home - applies  
to multiple usages.



PART NO.	L	B	Φ	W
MET-001-017-006	50	30	Φ6.3	95g

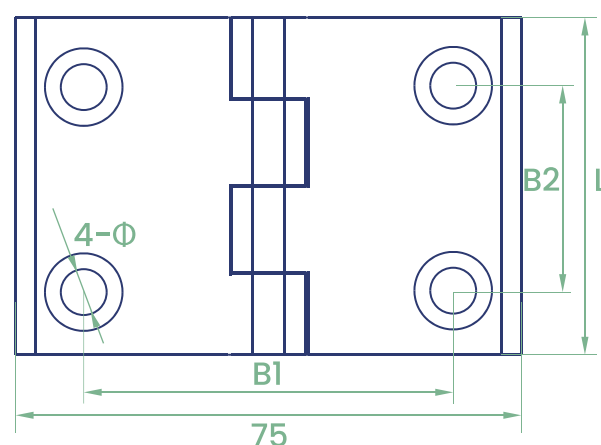






## #5055 Hinge

Silica sol precision casting.  
Enables seamless installation.  
Silent hinges, no noise.  
For yachts, ships & home- applies to multiple usages.

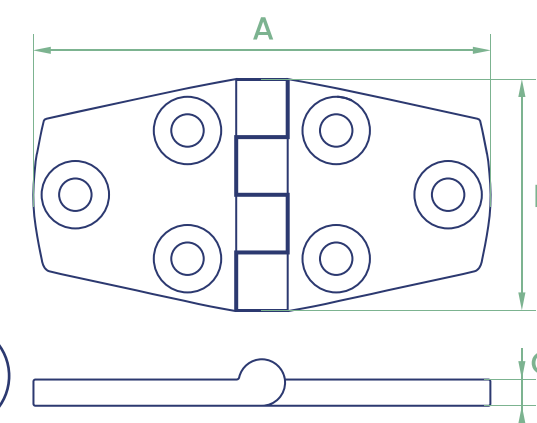


PART NO.	L	B1	B2	Φ	W
MET-001-017-007	50	55	30	Φ7	140g



## #7638 Hinge

Silica sol precision casting.  
Enables seamless installation.  
Silent hinges, no noise.  
For yachts, ships & home- applies to multiple usages.

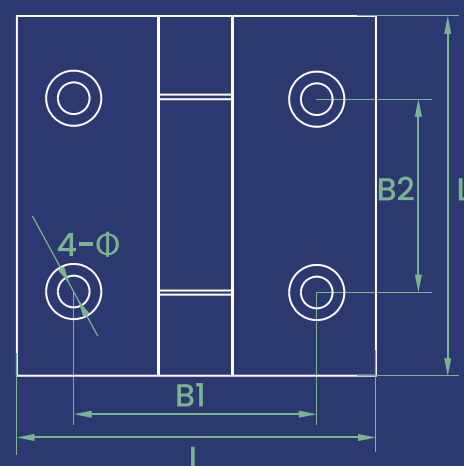


PART NO.	A	B	C	W
MET-001-017-009	76	38	4.2	90g



## #7550 Hinge

Silica sol precision casting.  
Enables seamless installation.  
Silent hinges, no noise.  
For yachts, ships & home - applies to multiple usages.

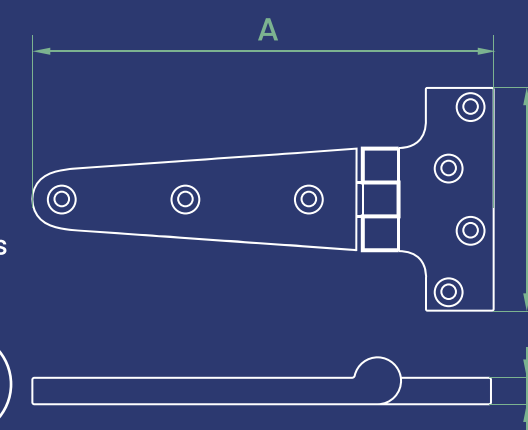


PART NO.	L	B1	B2	Φ	W
MET-001-017-008	75	50	40	Φ6.8	240g



## #T Hinge

Silica sol precision casting.  
Enables seamless installation.  
Silent hinges, no noise.  
For yachts, ships & home - applies to multiple usages.



PART NO.	A	B	C	W
MET-001-017-010	150	54	4.8	90g
MET-001-017-011	196	72	4.5	150g
MET-001-017-012	196	97	5.8	325g

# **Fuel Filler**

---

38 Boat Fuel Filler  
50 Boat Fuel Filler  
38 Angle Boat Fuel Filler  
50 Angle Boat Fuel Filler





# 38 Boat Fuel Filler

Adaptable to various environments.  
Suitable for yachts, cars, etc...



Manual Mirror  
Polishing



Exceptional  
Corrosion Resitance



Pass standard  
salt-spray testing



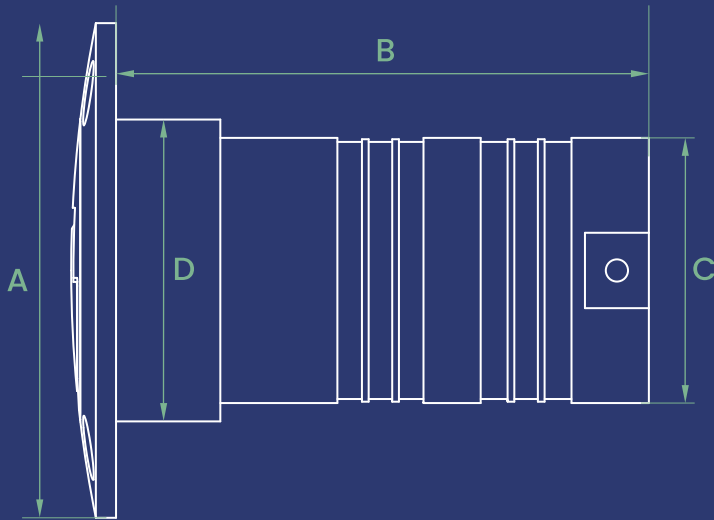
316 Stainless Steel  
(Marine Grade Material)



## Production Process

Coating-Free Maintenance.  
Silica sol precision casting.

Strong compatibility, compatible  
with multiple fuel types.



## Safety Function

Professional airtightness testing  
to prevent oil or water leakage.

Active tongue locking function.

## Aesthetic Design

Deck filler cap and flange  
installed flush.

PART NO.	SIZE	A	B	C	D
MET-001-012-38 GAS	For 1-1/2 inch	75	86	38.5	39
MET-001-012-38 FUEL	For 1-1/2 inch	75	86	38.5	39
MET-001-012-38 WATER	For 1-1/2 inch	75	86	38.5	39
MET-001-012-38 WASTE	For 1-1/2 inch	75	86	38.5	39
MET-001-012-38 DIESEL	For 1-1/2 inch	75	86	38.5	39
MET-001-012-38/NONE	For 1-1/2 inch	75	86	38.5	39

# 50 Boat Fuel Filler

Adaptable to various environments.  
Suitable for yachts, cars, etc...



Manual Mirror  
Polishing



Exceptional  
Corrosion Resitance



Pass standard  
salt-spray testing



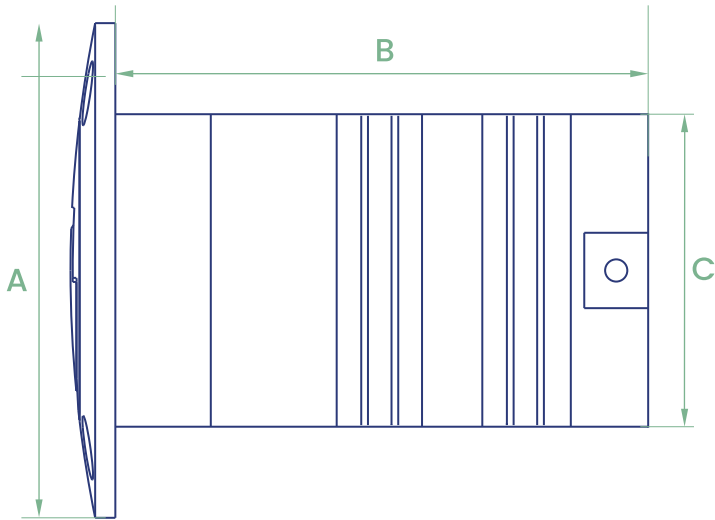
316 Stainless Steel  
(Marine Grade Material)



## Production Process

Coating-Free Maintenance.  
Silica sol precision casting.

Strong compatibility, compatible  
with multiple fuel types.



## Safety Function

Professional airtightness testing  
to prevent oil or water leakage.

Active tongue locking function.

## Aesthetic Design

Deck filler cap and flange  
installed flush.

PART NO.	SIZE	A	B	C
MET-001-012-50 GAS	For 2 inch	80	83.5	51
MET-001-012-50 FUEL	For 2 inch	80	83.5	51
MET-001-012-50 WATER	For 2 inch	80	83.5	51
MET-001-012-50 WASTE	For 2 inch	80	83.5	51
MET-001-012-50 DIESEL	For 2 inch	80	83.5	51
MET-001-012-50/NONE	For 2 inch	80	83.5	51

# 38 Angle Boat Fuel Filler

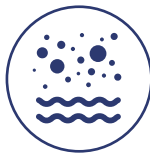
Adaptable to various environments.  
Suitable for yachts, cars, etc...



Manual Mirror Polishing



Exceptional Corrosion Resistance



Pass standard salt-spray testing



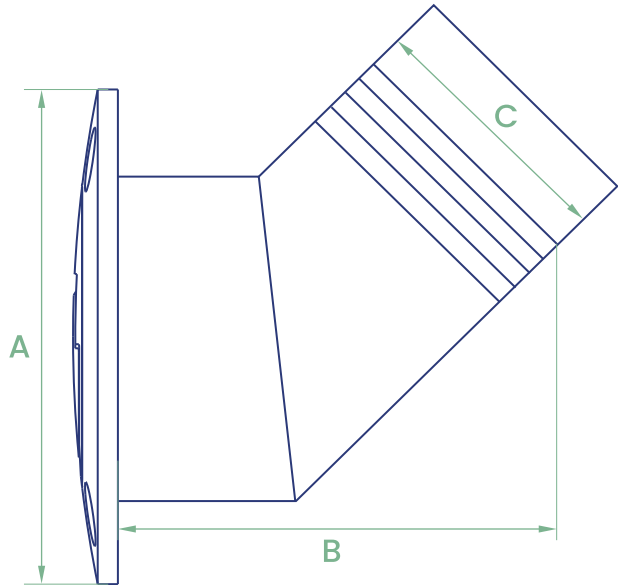
316 Stainless Steel (Marine Grade Material)



## Production Process

Coating-Free Maintenance.  
Silica sol precision casting.

Strong compatibility, compatible with multiple fuel types.



## Safety Function

Professional airtightness testing to prevent oil or water leakage.

Active tongue locking function.

## Aesthetic Design

Deck filler cap and flange installed flush.

PART NO.	SIZE	A	B	C
MET-001-012A-38 GAS	For 1-1/2 inch	74	88	38.5
MET-001-012A-38 FUEL	For 1-1/2 inch	74	88	38.5
MET-001-012A-38 WATER	For 1-1/2 inch	74	88	38.5
MET-001-012A-38 WASTE	For 1-1/2 inch	74	88	38.5
MET-001-012A-38 DIESEL	For 1-1/2 inch	74	88	38.5
MET-001-012A-38/NONE	For 1-1/2 inch	74	88	38.5

# 50 Angle Boat Fuel Filler

Adaptable to various environments.  
Suitable for yachts, cars, etc...



Manual Mirror Polishing



Exceptional Corrosion Resistance



Pass standard salt-spray testing



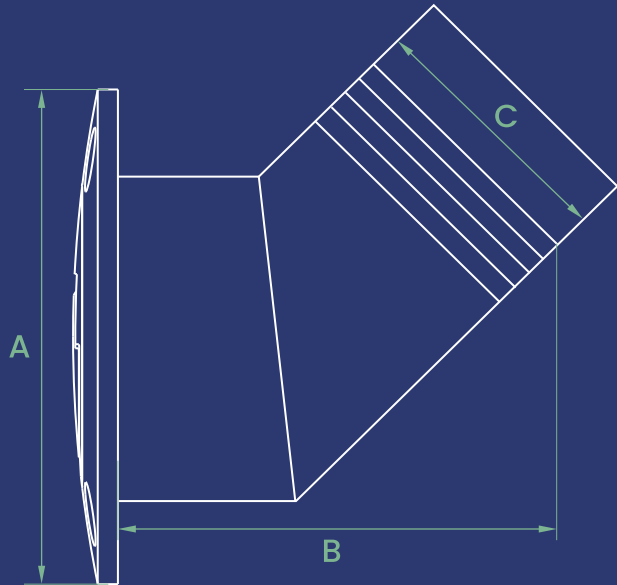
316 Stainless Steel (Marine Grade Material)



## Production Process

Coating-Free Maintenance.  
Silica sol precision casting.

Strong compatibility, compatible with multiple fuel types.



## Safety Function

Professional airtightness testing to prevent oil or water leakage.

Active tongue locking function.

## Aesthetic Design

Deck filler cap and flange installed flush.

PART NO.	SIZE	A	B	C
MET-001-012A-38 GAS	For 2 inch	74	88	50
MET-001-012A-38 FUEL	For 2 inch	74	88	50
MET-001-012A-38 WATER	For 2 inch	74	88	50
MET-001-012A-38 WASTE	For 2 inch	74	88	50
MET-001-012A-38 DIESEL	For 2 inch	74	88	50
MET-001-012A-38/NONE	For 2 inch	74	88	50





# *Ladder* 8

- 
- Boat Telescopic 3-4 Step Ladder
  - Boat Telescopic 3-4 Step Ladder with Railing
  - Boat Telescopic 4 Step Ladder with Railing
  - Boat Folding 3-5 Step Ladder
  - Boat Telescopic 3-4 Step Sliding Ladder
  - Boat Folding 5 Step Ladder

# Boat Telescopic 3-4 Step Ladder

Heavy-duty load capacity, safe and reliable.



Manual Mirror Polishing



Exceptional Corrosion Resistance



Pass standard salt-spray testing



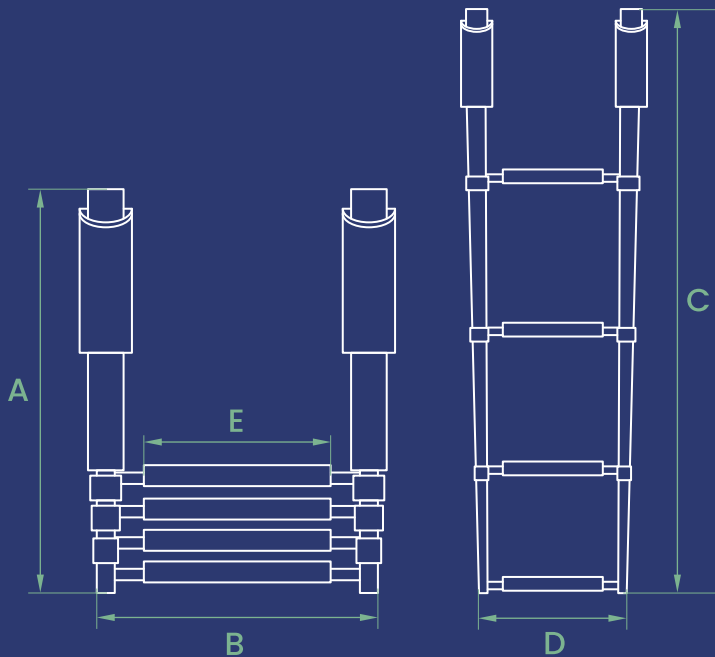
316 Stainless Steel (Marine Grade Material)



## Production Process

Precision welding, elegant and durable.

Quick retraction and deployment, ensuring smooth application.



## Safety Function

Black pedals with non-slip thread ensure your safety and comfort.

Max Loads: 900lbs.

PART NO.	SIZE	A	B	C	D	E
MET-001-031-003	3 step	315	254	875	254	190
MET-001-031-004	4 step	393	254	1155	254	190

# Boat Telescopic 3-4 Step Ladder with Railing

Heavy-duty load capacity, safe and reliable.



Manual Mirror Polishing



Exceptional Corrosion Resistance



Pass standard salt-spray testing



316 Stainless Steel (Marine Grade Material)



## Production Process

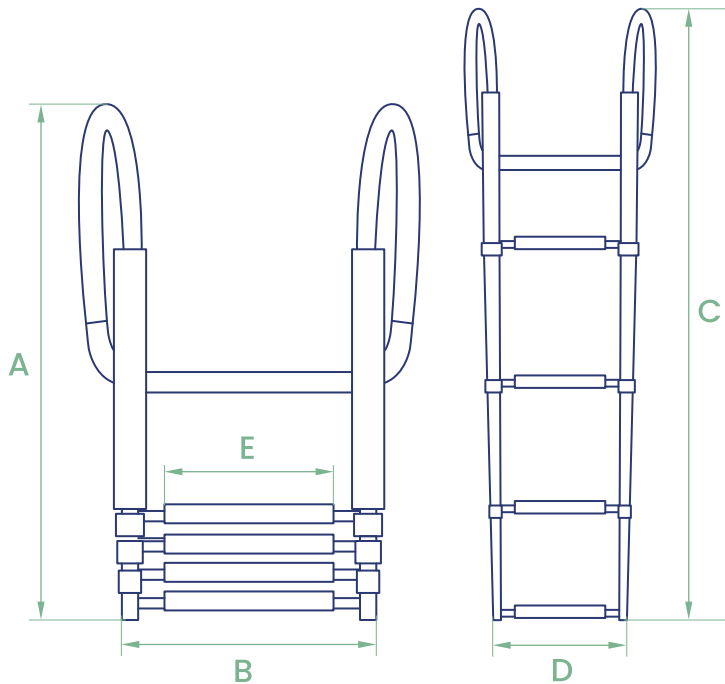
Precision welding, elegant and durable.

Quick retraction and deployment, ensuring smooth application.

## Aesthetic Design

Double C-Shape Boat Ladder Stowing.

Telescopes and flip-up design for convenient storage.



## Safety Function

Black pedals with non-slip thread ensure your safety and comfort.

Max Loads: 600lbs.

PART NO.	SIZE	A	B	C	D	E
MET-001-032-003	3 step	350	862	875	254	178
MET-001-032-004	4 step	440	1143	1155	254	178



# Boat Telescopic 4 Step Ladder with Railing

Heavy-duty load capacity, safe and reliable.



Manual Mirror Polishing



Exceptional Corrosion Resistance



Pass standard salt-spray testing



316 Stainless Steel (Marine Grade Material)



## Production Process

Precision welding, elegant and durable.

Quick retraction and deployment, ensuring smooth application.

## Aesthetic Design

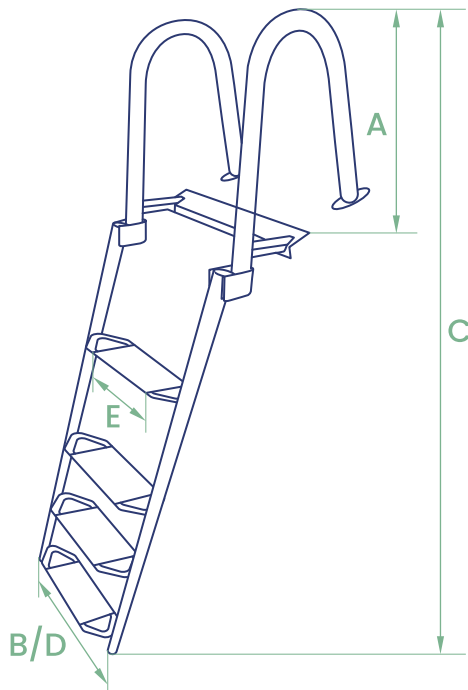
Double C-Shape Boat Ladder Stowing.

Telescopes and flip-up design for convenient storage.

## Safety Function

Black pedals with non-slip thread ensure your safety and comfort.

Max Loads: 600lbs.



PART NO.	SIZE	A	B	C	D	E
MET-001-034-004	4 step	407	280	1640	400	204

# Boat Folding 3-5 Step Ladder

Heavy-duty load capacity, safe and reliable.



Manual Mirror Polishing



Exceptional Corrosion Resistance



Pass standard salt-spray testing



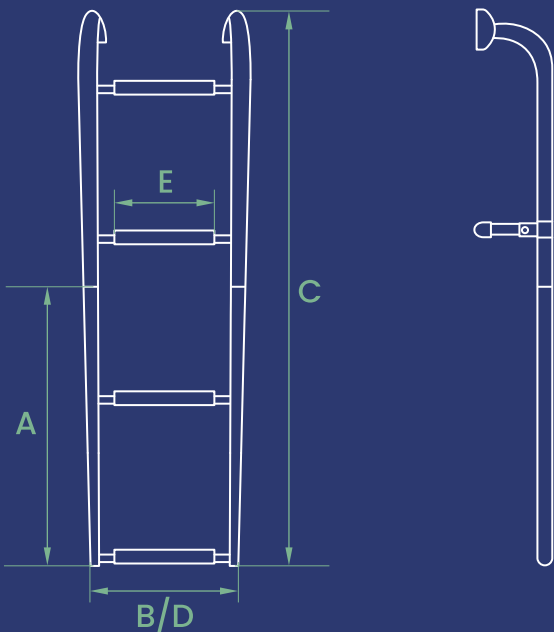
316 Stainless Steel (Marine Grade Material)



## Production Process

Precision welding, elegant and durable.

Folding design, ensuring smooth application.



PART NO.	SIZE	A	B	C	D	E
MET-001-035-003	3 step	320	200	600	200	133
MET-001-035-004	4 step	450	235	880	235	168
MET-001-035-005	5 step	730	235	1089	235	168

## Safety Function

Black pedals with non-slip thread ensure your safety and comfort.

# Boat Telescopic 3-4 Step Sliding Ladder

Heavy-duty load capacity, safe and reliable.



Manual Mirror Polishing



Exceptional Corrosion Resistance



Pass standard salt-spray testing



316 Stainless Steel (Marine Grade Material)



## Production Process

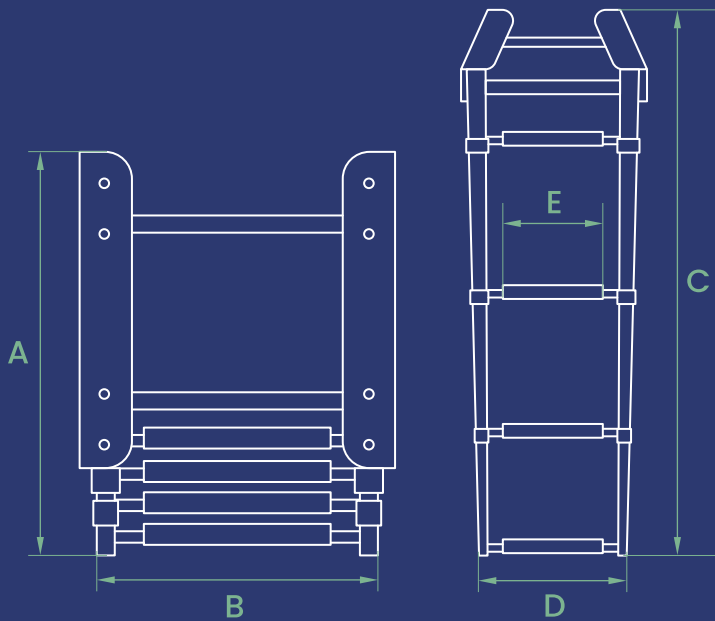
Precision welding, elegant and durable.

Quick retraction and deployment, ensuring smooth application.

## Safety Function

Black pedals with non-slip thread ensure your safety and comfort.

Strong weighing capacity, safe and reliable  
Max Loads: 600lbs.



PART NO.	SIZE	A	B	C	D	E
MET-001-036-003	3 step	368	311	890	311	180
MET-001-036-004	4 step	397	311	1155	311	180

# Boat Folding 5 Step Ladder

Heavy-duty load capacity, safe and reliable.



Manual Mirror Polishing



Exceptional Corrosion Resistance



Pass standard salt-spray testing



316 Stainless Steel (Marine Grade Material)



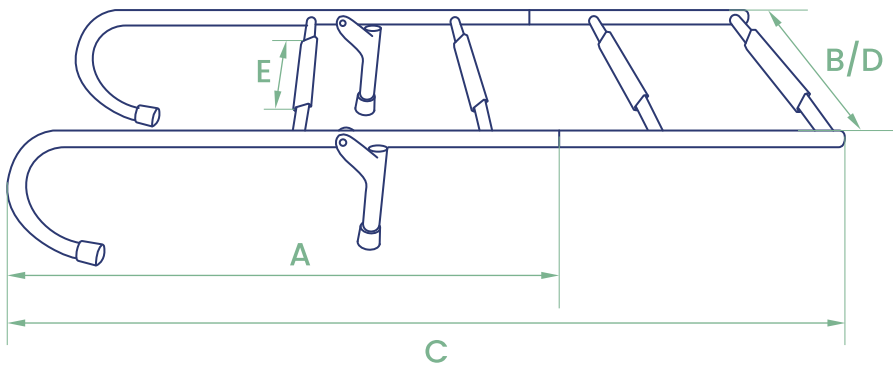
## Production Process

Precision welding, elegant and durable.

Folding design, ensuring smooth application.

## Safety Function

Black pedals with non-slip thread ensure your safety and comfort.



PART NO.	SIZE	A	B	C	D	E
MET-001-037-005	5 step	970	350	1400	350	183





# *Steering Wheel*



---

Boat 5 Spoke 3/4 inch Steering Wheel  
Boat 5 Spoke 3/4 inch Steering Wheel  
Boat 3 Spoke Steering Wheel

# Boat 5 Spoke 3/4 inch Steering Wheel

Fitting for standard 3/4 inch tapered shaft.



Manual Mirror Polishing



Exceptional Corrosion Resistance



Pass standard salt-spray testing

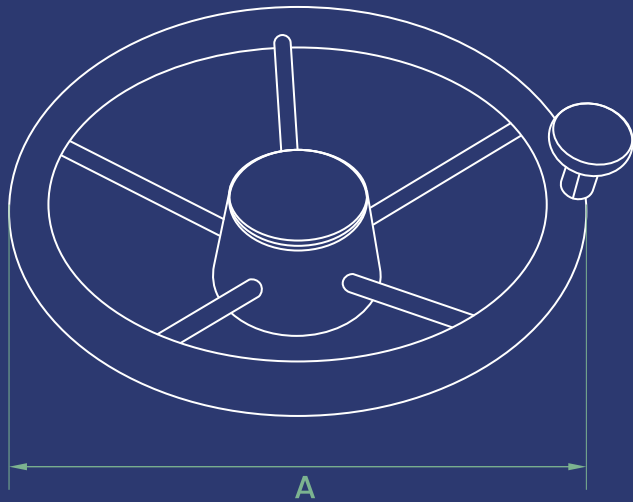


316 Stainless Steel (Marine Grade Material)



## Production Process

Rim Fabricated from "Oval" tubing; Approx 25 Degree spokes.



## Safety Function

With five spokes, it has high load-bearing capacity.

PART NO.	SIZE	SHAFT	DISH	SPOKE	A
MET-001-038-001	11 inch	3/4 inch	25°	5	11 inch
MET-001-038-002	13-1/2 inch	3/4 inch	25°	5	13-1/2 inch
MET-001-038-003	15-1/2 inch	3/4 inch	25°	5	15-1/2 inch

# Boat 5 Spoke 3/4 inch Steering Wheel

Fitting for standard 3/4 inch tapered shaft.



Manual Mirror Polishing



Exceptional Corrosion Resistance



Pass standard salt-spray testing

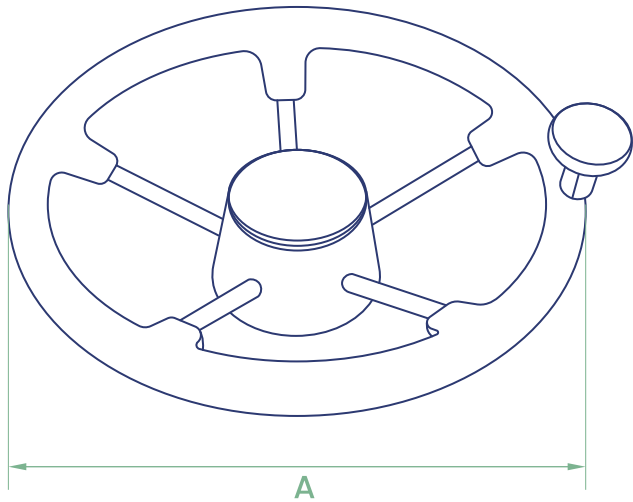


316 Stainless Steel (Marine Grade Material)



## Production Process

Rim Fabricated from "Oval" tubing; Approx 25 Degree spokes.



## Safety Function

With five spokes, it has high load-bearing capacity.

PART NO.	SIZE	SHAFT	DISH	SPOKE	A
MET-001-039-001	11 inch	3/4 inch	25°	5	11 inch
MET-001-039-002	13-1/2 inch	3/4 inch	25°	5	13-1/2 inch
MET-001-039-003	15-1/2 inch	3/4 inch	25°	5	15-1/2 inch



# Boat 3 Spoke Steering Wheel

Fitting for standard 3/4 inch tapered shaft.



Manual Mirror Polishing



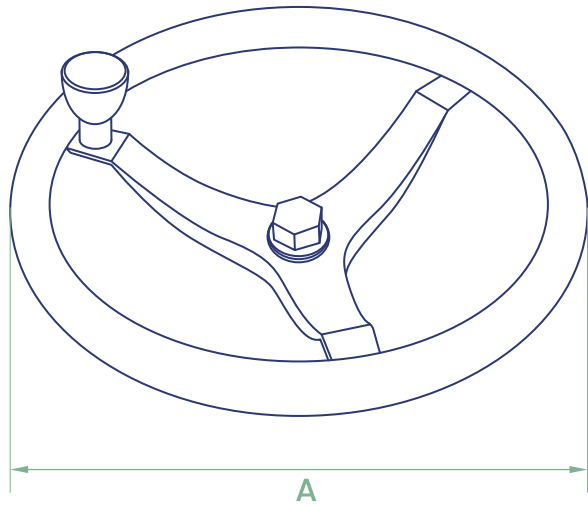
Exceptional Corrosion Resistance



Pass standard salt-spray testing



316 Stainless Steel (Marine Grade Material)



## Production Process

Rim Fabricated from "Oval" tubing;  
Approx 25 Degree spokes.

## Safety Function

Spokes and base, integrally cast and molded, it has high load-bearing capacity.

PART NO.	SIZE	SHAFT	DISH	SPOKE	A
MET-001-040-001	13-1/2 inch	3/4 inch	25°	3	13-1/2 inch
MET-001-040-002	15-1/2 inch	3/4 inch	25°	3	15-1/2 inch



*Smooth & Responsive  
Helm Experience*

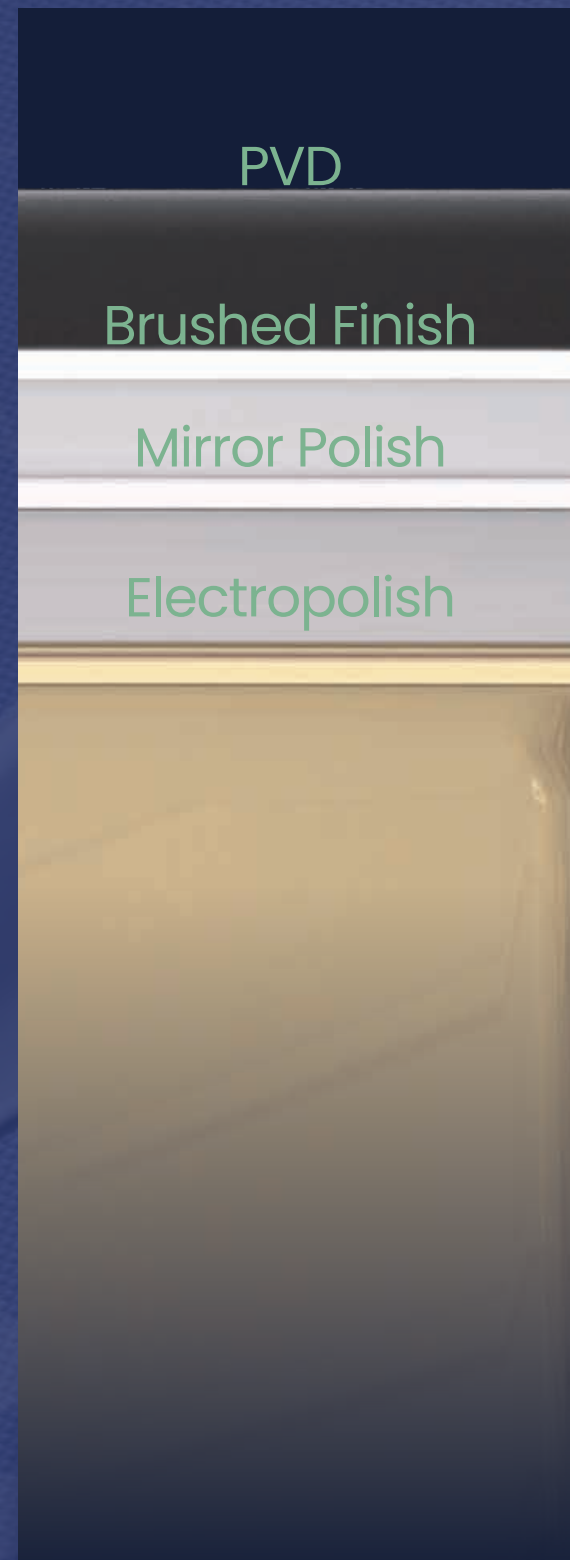
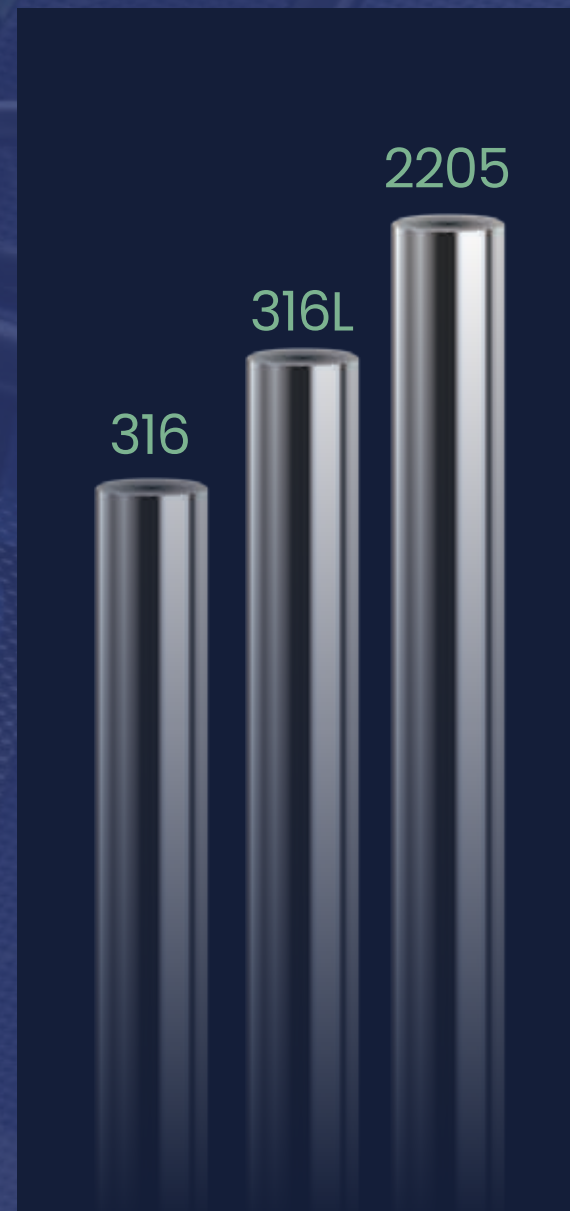


# Customizable

## Logo

## Surface

## Material



## Package



Laser Engraving  
Laser Marking  
Casting  
Etching







**Surface**

**Package**

**Material**

**Logo**





TEL : 86 19050276029

E-mail : [bella@zghuayang.com](mailto:bella@zghuayang.com)

WEB : [www.metraxion.com](http://www.metraxion.com)

ADD : North side of National Highway 311, Caoqiao Town, Xinyi City, Jiangsu Province, China