



ERCEM GV



Operating principles:

ERCEM seal is a mechanical seal which

operate thanks to the friction of the rotating stainless steel ring and static carbon ring.

The nitrile bellows fixed to the stern tube with collars 316L provides compression between the steel ring and the carbon ring .

The rotating seal ERCEM tolerate misalignment and provides a perfect axial sealing thanks to the two O-rings mounted in the stainless steel ring and radial

by pressing the carbon and stainless steel ring . Our ERCEM sealing are mounted on propeller shaft but also on rudders .

Direct evolution of the ERCEM : The ERCEM GV. This system is particularly suitable for fast boats (above 20 knots) when sterntube empties himself by depression due to speed. It can be use too for boat without water or air inlet on sterntube, improving considerably the lubrication of water lubricate bearing, with reduction of electrolytic reactions caused by the water stagnation in sterntube.

CARBON/GRAPHITE RING

Rings are produced with Isomolded, very fine grain, high strength, high density, isotropic graphite resin impregnated for high mechanical and sealing applications.

This material may tolerate temperatures up to 200 ° Celsius. Rings are produced on CNC machines to ensure a glossy surface state on the contact face.

Depending on the application, the carbon ring may be provided with polyamide fitting to provide better lubrication in water or air vent. We use a non-metallic material to avoid electrolytic phenomena.



STAINLESS STEEL RING

316L stainless steel rings are machined on CNC machine to ensure a perfect surface condition and exacting tolerances. The rings are slipped onto the shaft and held in place by 3 setscrews cup end in stainless steel 316L.

The rings are also equipped with two O-rings in nitrile to ensure a perfect seal.

Concerning stainless steel rings for shaft above Ø55mm, they are composed of two parties to facilitate mounting.



BELLOW

ERCEM can be fitted with two different types of bellows :

- First one, simple bellows are made of an elastomer and is particularly used for recreational with shaft diameters up to 41.275mm (1" 5/8).

- Second one, reinforced bellows are made of high strength reinforced nitrile covered by Aramid more known as Kevlar®. It can be mounted on our entire range. Its advantages are increased resistance to petrochemicals products, UV, cuts, strains and also to high temperatures.

Our range of bellows is tested under high pressure in our workshops to return to our quality criteria.



WATER PICK UP KITS

Water Pick-Up Kits include everything needed to connect your ERCEM to a point in the engine's raw water cooling system: Brass Tees, hose and 316L clamps.

Reference	Référence
Water pick up kits- Tee 3/4"	ERCKIT1
Water pick up kits-- Tee 1"	ERCKIT2
Water pick up kits-- Tee 1"1/4	ERCKIT3
Water pick up kits-- Tee 1"1/2	ERCKIT4



ERCEM SEALS IN FEW WORDS

- The ERCEM is a 100% French origin
- With an experience of several decades, it is known for its reliability.
- Ecological: no lubrication using petrochemical material.
- Economic:
 - * No maintenance required
 - * No greasing
 - * No lip seals replacement
 - * No braid packing to tighten the stuffy box
 - * No shaft wear due to friction of lip seals or braid
- Tolerates misalignment and offers perfect axial sealing

They trust us:

ALLAIS - ALLURES YACHTING - ALUTECH - CATANA - COUACH - CNB - CHANTIER NAVAL DELAVERGNE - DINTRA BV - H2X - OCEA - MICHIGAN WHEEL MARINE EUROPE - NSI - SIBIRIL - STX FRANCE - TRANSMETAL INDUSTRIE - UFAST - UFIN ...



Description:

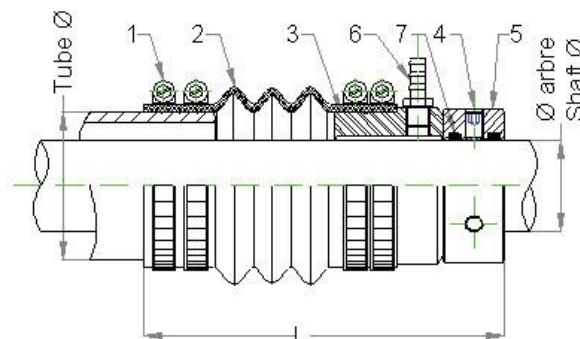
L = total length (the dimension 'L' is given as "indicative" without compression)

C= compression

+ or - 2 mm (simple)

+ or - 4 mm (reinforced)

(1) Stainless steel clamps (2) Reinforced bellow (3) Carbon ring (4) Stainless steel screw (5) Stainless steel ring (6) Water inlet (7) O'rings



SHAFT Ø	TUBE Ø	Reinforced Bellow	L	C
25	41/46	ERCCO16002502	169	14
25	53/62	ERCCO16002504	176	10
25.4 (1")	41/46	ERCCO16025402	169	14
25.4 (1")	53/62	ERCCO16025404	176	10
28	41/46	ERCCO16002802	174	14
28	53/62	ERCCO16002804	181	10
28	64/70	ERCCO16002805	181	10
28.6(1.1/8")	41/46	ERCCO160028602	174	14
28.6(1.1/8")	53/62	ERCCO160028604	181	10
30	41/46	ERCCO16003002	174	14
30	53/62	ERCCO16003004	181	10
30	64/70	ERCCO16003005	181	10
31.75(1.1/4")	41/46	ERCCO160031702	174	14
31.75(1.1/4")	53/62	ERCCO160031704	181	10
34	53/62	ERCCO16003402	181	10
34	64/70	ERCCO16003404	179	10
34	75/84	ERCCO16003405	189	14
35	53/62	ERCCO16003502	181	10
35	64/70	ERCCO16003504	179	10
35	75/84	ERCCO16003505	189	14
38.1(1.1/2")	53/62	ERCCO160038102	181	10
38.1(1.1/2")	64/70	ERCCO160038104	179	10
38.1(1.1/2")	75/84	ERCCO160038105	189	14
40	53/62	ERCCO16004002	189	10
40	64/70	ERCCO16004004	187	10
40	75/84	ERCCO16004005	197	14

SHAFT Ø	TUBE Ø	Reinforced Bellow	L	C
41.2 (1.5/8")	53/62	ERCCO160041202	189	10
41.2 (1.5/8")	64/70	ERCCO160041204	187	10
41.2 (1.5/8")	75/84	ERCCO160041205	197	14
44,45(1.3/4")	64/70	ERCCO160044401	189	10
44,45(1.3/4")	75/84	ERCCO160044402	199	14
45	64/70	ERCCO16004501	189	10
45	75/84	ERCCO16004502	199	14
47.6(1.7/8")	64/70	ERCCO160047601	189	10
47.6(1.7/8")	75/84	ERCCO160047602	199	14
50	75/84	ERCCO16005001	199	14
50	88/93	ERCCO16005002	212	14
50	94/100	ERCCO16005003	212	14
50.8 (2 ")	75/84	ERCCO160050801	199	14
50.8 (2 ")	88/93	ERCCO160050802	212	14
50.8 (2 ")	94/100	ERCCO160050803	212	14
55	75/84	ERCCO16005501	216	14
55	88/93	ERCCO16005502	229	14
55	94/100	ERCCO16005503	229	14
57.15(2.1/4")	75/84	ERCCO160057101	216	14
57.15(2.1/4")	88/93	ERCCO160057102	229	14
57.15(2.1/4")	94/100	ERCCO160057103	229	14
60	88/93	ERCCO16006001	229	14
60	94/100	ERCCO16006002	229	14
60	104/114	ERCCO16006003	279	25
63.5(2.1/2")	88/93	ERCCO160063501	229	14
63.5(2.1/2")	94/100	ERCCO160063502	229	14
63.5(2.1/2")	104/114	ERCCO160063503	279	25



ERCEM GV SEALS SPARE PARTS

ERCEM GV REFERENCE	BELLOW	CARBON RING	STAINLESS STEEL RING
ERCCO16002502	ERCSO15100003	ERCBC15500003	ERCB15302501
ERCCO16002504	ERCSO15100005	ERCBC15500004	ERCB15302501
ERCCO160025402	ERCSO15100003	ERCBC15500003	ERCB153025401
ERCCO160025404	ERCSO15100005	ERCBC15500004	ERCB153025401
ERCCO16002802	ERCSO15100003	ERCBC15500005	ERCB15302801
ERCCO16002804	ERCSO15100005	ERCBC15500006	ERCB15302801
ERCCO16002805	ERCSO15100005	ERCBC15500005	ERCB15302801
ERCCO160028602	ERCSO15100003	ERCBC15500005	ERCB153028601
ERCCO160028604	ERCSO15100005	ERCBC15500006	ERCB153028601
ERCCO16003002	ERCSO15100003	ERCBC15500005	ERCB15303001
ERCCO16003004	ERCSO15100005	ERCBC15500006	ERCB15303001
ERCCO16003005	ERCSO15100005	ERCBC15500005	ERCB15303001
ERCCO160031702	ERCSO15100003	ERCBC15500005A	ERCB153031701
ERCCO160031704	ERCSO15100005	ERCBC15500006A	ERCB153031701
ERCCO16003402	ERCSO15100005	ERCBC15500007	ERCB15303401
ERCCO16003404	ERCSO15100006	ERCBC15500008	ERCB15303401
ERCCO16003405	ERCSO15100007	ERCBC15500008	ERCB15303401
ERCCO16003502	ERCSO15100005	ERCBC15500007	ERCB15303501
ERCCO16003504	ERCSO15100006	ERCBC15500008	ERCB15303501
ERCCO16003505	ERCSO15100007	ERCBC15500008	ERCB15303501
ERCCO160038102	ERCSO15100005	ERCBC15500007A	ERCB153038101
ERCCO160038104	ERCSO15100006	ERCBC15500008A	ERCB153038101
ERCCO160038105	ERCSO15100007	ERCBC15500008A	ERCB153038101
ERCCO16004002	ERCSO15100005	ERCBC15500009	ERCB15304001
ERCCO16004004	ERCSO15100006	ERCBC15500010	ERCB15304001
ERCCO16004005	ERCSO15100007	ERCBC15500010	ERCB15304001
ERCCO160041202	ERCSO15100005	ERCBC15500009	ERCB153041201
ERCCO160041204	ERCSO15100006	ERCBC15500010	ERCB153041201
ERCCO160041205	ERCSO15100007	ERCBC15500010	ERCB153041201
ERCCO160044401	ERCSO15100006	ERCBC15500011	ERCB153044401
ERCCO160044402	ERCSO15100007	ERCBC15500011	ERCB153044401
ERCCO16004501	ERCSO15100006	ERCBC15500011	ERCB15304501
ERCCO16004502	ERCSO15100007	ERCBC15500011	ERCB15304501
ERCCO160047601	ERCSO15100006	ERCBC15500011	ERCB153047601
ERCCO160047602	ERCSO15100007	ERCBC15500011	ERCB153047601
ERCCO16005001	ERCSO15100007	ERCBC15500013	ERCB15305001
ERCCO16005002	ERCSO15100008	ERCBC15500014	ERCB15305001
ERCCO16005003	ERCSO15100008	ERCBC15500014A	ERCB15305001
ERCCO160050801	ERCSO15100007	ERCBC15500013	ERCB153050801
ERCCO160050802	ERCSO15100008	ERCBC15500014	ERCB153050801
ERCCO160050803	ERCSO15100008	ERCBC15500014A	ERCB153050801
ERCCO16005501	ERCSO15100007	ERCBC15500013A	ERCB15305501
ERCCO16005502	ERCSO15100008	ERCBC15500014B	ERCB15305501
ERCCO16005503	ERCSO15100008	ERCBC15500014C	ERCB15305501
ERCCO160057101	ERCSO15100007	ERCBC15500013A	ERCB153057101
ERCCO160057102	ERCSO15100008	ERCBC15500014B	ERCB153057101
ERCCO160057103	ERCSO15100008	ERCBC15500014C	ERCB153057101
ERCCO16006001	ERCSO15100008	ERCBC15500015	ERCB15306001
ERCCO16006002	ERCSO15100008	ERCBC15500015A	ERCB15306001
ERCCO16006003	ERCSO15100009	ERCBC15500016	ERCB15306001
ERCCO160063501	ERCSO15100008	ERCBC15500015	ERCB153063501
ERCCO160063502	ERCSO15100008	ERCBC15500015A	ERCB153063501
ERCCO160063503	ERCSO15100009	ERCBC15500016	ERCB153063501



ERCEM GV SEALS SPARE PARTS



ERCEM GV REFERENCE	BELLOW	CARBON RING	STAINLESS STEEL RING
ERCCO150041204	ERCSO15100006	ERCBC15200010	ERCB153041201
ERCCO150041205	ERCSO15100007	ERCBC15200010	ERCB153041201
ERCCO150044401	ERCSO15100006	ERCBC15200011	ERCB153044401
ERCCO150044402	ERCSO15100007	ERCBC15200011	ERCB153044401
ERCCO15004501	ERCSO15100006	ERCBC15200011	ERCB15304501
ERCCO15004502	ERCSO15100007	ERCBC15200011	ERCB15304501
ERCCO150047601	ERCSO15100006	ERCBC15200011	ERCB153047601
ERCCO150047602	ERCSO15100007	ERCBC15200011	ERCB153047601
ERCCO15005001	ERCSO15100007	ERCBC15200013	ERCB15305001
ERCCO15005002	ERCSO15100008	ERCBC15200014	ERCB15305001
ERCCO15005003	ERCSO15100008	ERCBC15200014A	ERCB15305001
ERCCO150050801	ERCSO15100007	ERCBC15200013	ERCB153050801
ERCCO150050802	ERCSO15100008	ERCBC15200014	ERCB153050801
ERCCO150050803	ERCSO15100008	ERCBC15200014A	ERCB153050801
ERCCO15005501	ERCSO15100007	ERCBC15200013A	ERCB15305501
ERCCO15005502	ERCSO15100008	ERCBC15200014B	ERCB15305501
ERCCO15005503	ERCSO15100008	ERCBC15200014C	ERCB15305501
ERCCO150057101	ERCSO15100007	ERCBC15200013A	ERCB153057102
ERCCO150057102	ERCSO15100008	ERCBC15200014B	ERCB153057102
ERCCO150057103	ERCSO15100008	ERCBC15200014C	ERCB153057102
ERCCO15006001	ERCSO15100008	ERCBC15200015	ERCB15306001
ERCCO15006002	ERCSO15100008	ERCBC15200015A	ERCB15306001
ERCCO15006003	ERCSO15100009	ERCBC15200016	ERCB15306001
ERCCO150063501	ERCSO15100008	ERCBC15200015	ERCB153063501
ERCCO150063502	ERCSO15100008	ERCBC15200015A	ERCB153063501
ERCCO150063503	ERCSO15100009	ERCBC15200016	ERCB153063501
ERCCO15006501	ERCSO15100008	ERCBC15200015B	ERCB15306501
ERCCO15006502	ERCSO15100008	ERCBC15200015C	ERCB15306501
ERCCO15006503	ERCSO15100009	ERCBC15200016B	ERCB15306501
ERCCO15007001	ERCSO15100009	ERCBC15200017	ERCB15307001
ERCCO15007002	ERCSO15100010	ERCBC15200019	ERCB15307001
ERCCO15007501	ERCSO15100009	ERCBC15200017A	ERCB15307501
ERCCO15007502	ERCSO15100010	ERCBC15200019A	ERCB15307501
ERCCO150076201	ERCSO15100009	ERCBC15200018	ERCB153076201
ERCCO150076202	ERCSO15100010	ERCBC15200020	ERCB153076201
ERCCO15008001	ERCSO15100009	ERCBC15200018	ERCB15308001
ERCCO15008002	ERCSO15100010	ERCBC15200020	ERCB15308001
ERCCO150082501	ERCSO15100009	ERCBC15200018A	ERCB153082501
ERCCO150082502	ERCSO15100010	ERCBC15200020	ERCB153082501
ERCCO15008501	ERCSO15100010	ERCBC15200020A	ERCB15308501
ERCCO15009001	ERCSO15100010	ERCBC15200021A	ERCB15309001
ERCCO15009501	ERCSO15100011	ERCBC15200024	ERCB15309501
ERCCO15010001	ERCSO15100011	ERCBC15200022	ERCB15310001
ERCCO15011001	ERCSO15100012	ERCBC15200023	ERCB15311001
ERCCO15011002	ERCSO15100013	ERCBC15200023	ERCB15311001
ERCCO15011501	ERCSO15100012	ERCBC15200023A	ERCB15311501
ERCCO15011502	ERCSO15100013	ERCBC15200023A	ERCB15311501