

CASING END SEAL CATALOG

APPROVED EGY-TEC. CO.



APPROVED EGY-TEC. CO.
Approved Egyptian Technology Company



Revision NO.	Issue Date	Prepared By	Approved BY
REV. 191	15/8/2019	Eng. Ahmed Hassan	Eng. Amr El Kholy
REV. 213	1/5/2021	Eng. Mohammed Fawzy	Eng. Amr El Kholy

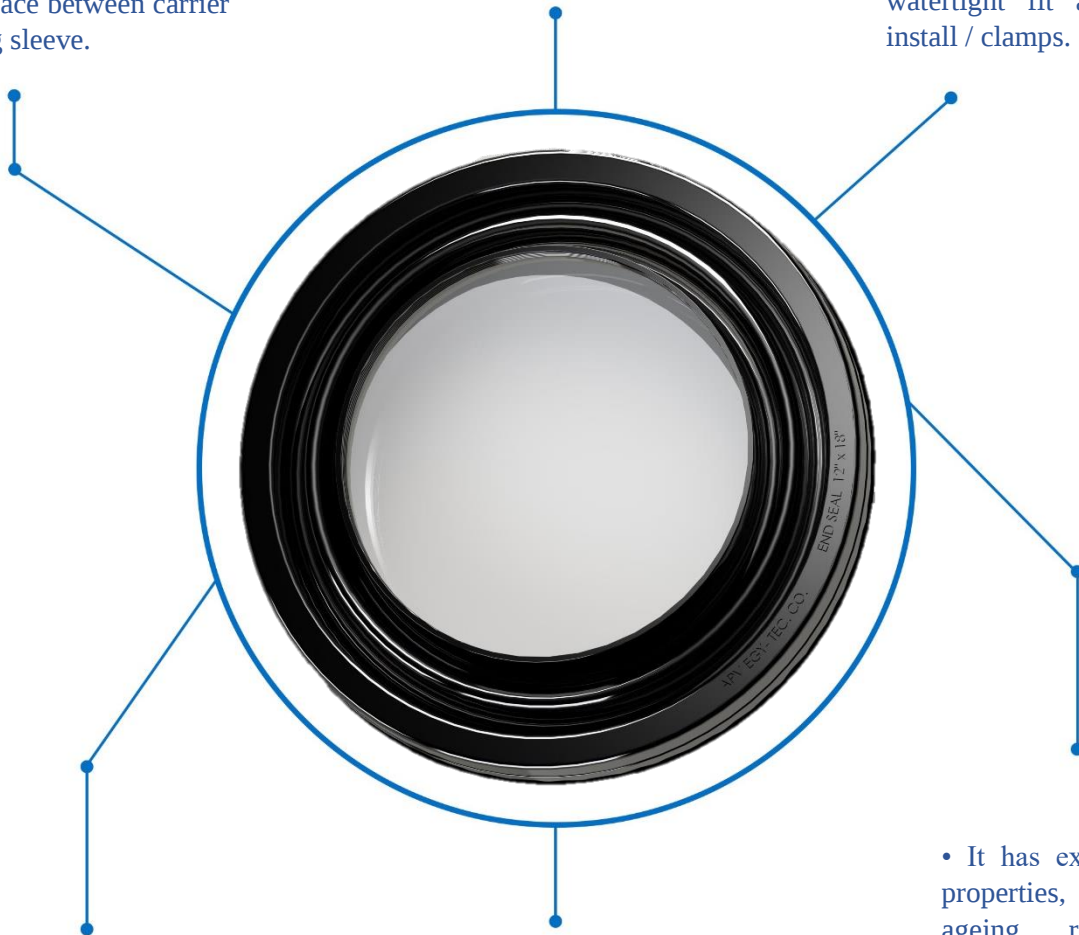


Casing End Seal:

- The use of Casing End Seals is generally required for the installation of gas, oil or water pipelines for sealing the annular space between carrier and casing sleeve.

- They are suitable for sealing, however in cases there is water leakage.

- The Casing End Seals are watertight fit and easy to install / clamps.



- They are placed on the exterior side of the carrier and the casing without voids, only for additional protection and more bond we fixed by stainless-steel bands and a screwdriver is the only tool needed.

- Our Casing End Seals are made from EPDM (Ethylene Propylene Diene Monomer), which is the most suitable material for manufacture.

- It has excellent physical properties, an optimal ageing resistance and chemical resistance, even at low temperatures.



1st Model:

Pull-On Type

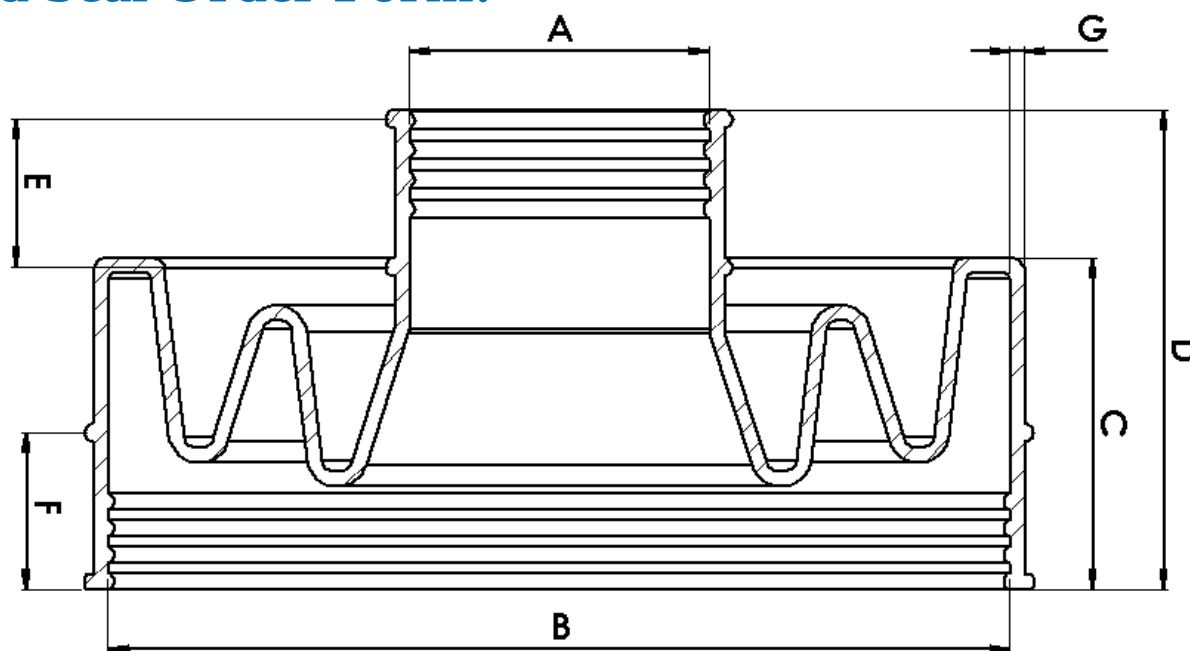
Pull-On Type are exclusively used for new installations.		
Material	EPDM (Ethylene Propylene Diene Monomer)	
Thickness	about 4 to 5 mm	
Shore hardness	60/65	[ASTM D1415]
Tensile strength	6.1 MPa	[ASTM D 412]
Ultimate	480% at break	[ASTM D412]
Strap material	SS 316L	

Standard Model Samples:





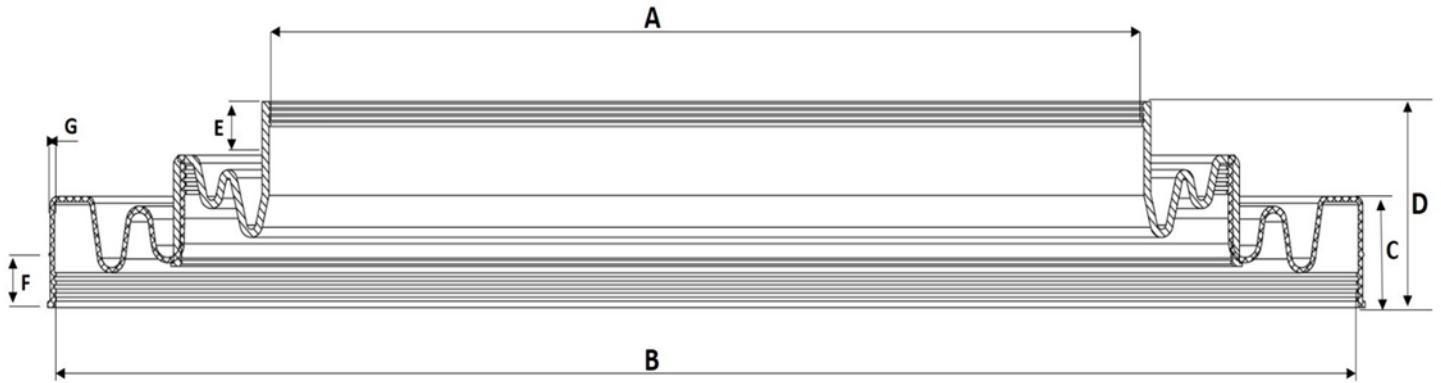
End Seal Order Form:



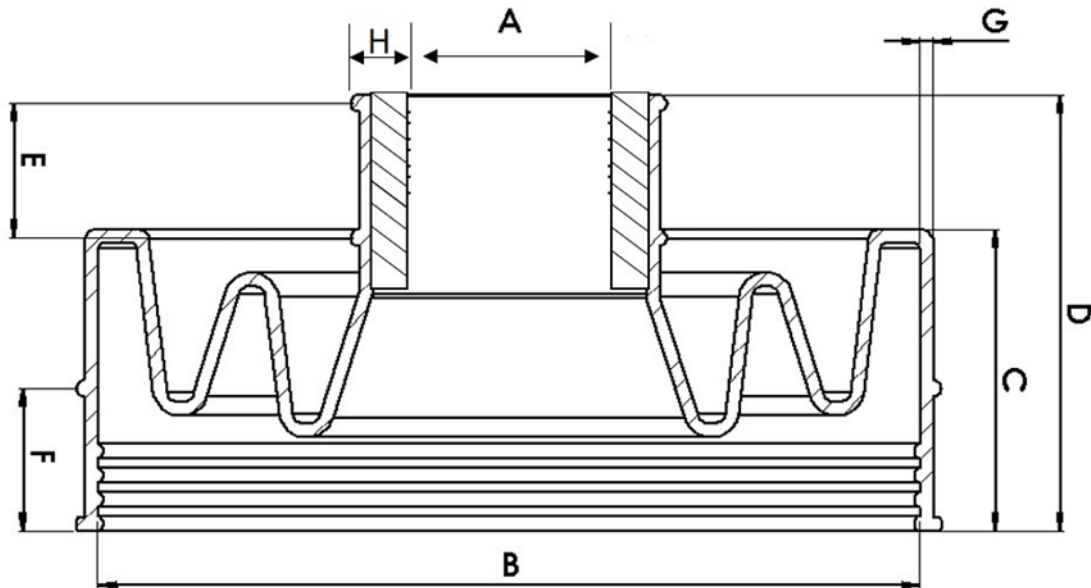
Code No	Nominal Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
EG-0104	1 x 4	23	97	51	87	25	25	4
EG-0204	2 x 4	46	97	51	87	25	25	4
EG-0206	2 x 6	46	147	53	87	25	25	4
EG-0308	3 x 8	73	200	53	85	25	25	4
EG-0410	4 x 10	98	248	53	85	25	25	4
EG-0412	4 x 12	98	294	53	85	25	25	4
EG-0612	6 x 12	147	294	53	85	25	25	4
EG-0614	6 x 14	147	345	53	85	25	25	4
EG-0816	8 x 16	195	390	53	85	25	25	4
EG-0818	8 x 18	195	445	53	85	25	25	4
EG-1016	10 x 16	248	390	53	85	25	25	4
EG-1020	10 x 20	248	494	53	85	25	25	4
EG-1218	12 x 18	294	445	54	75	40	25	4
EG-1622	16 x 22	393	545	54	75	40	25	4
EG-2026	20 x 26	494	647	54	75	40	25	5
EG-2430	24 x 30	596	736	54	75	40	25	5
EG-3036	30 x 36	736	889	54	75	40	25	5
EG-3440	34 x 40	839	990	54	75	40	25	5
EG-3542	35 x 42	864	1041	54	75	40	25	5
EG-3642	36 x 42	889	1041	54	75	40	25	5
EG-4046	40 x 46	990	1143	54	75	40	25	5
EG-4452	44 x 52	1093	1295	54	75	40	25	5
EG-4856	48 x 56	1194	1397	54	75	40	25	5



End Seal Special Sizes:



Code No	Nominal Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
EG-2030	20x30	494	736	53	85	25	25	5



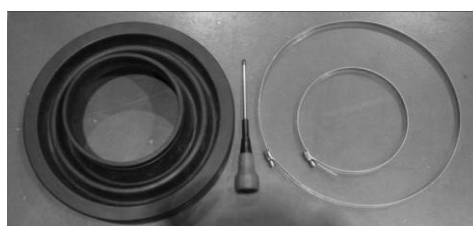
Code No	Nominal Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
EG-0106	1 x 6	32	147	53	87	25	25	4	16
EG-0208	2 x 8	46	200	53	85	25	25	4	16
EG-1018	10 x 18	248	445	54	75	40	25	4	30



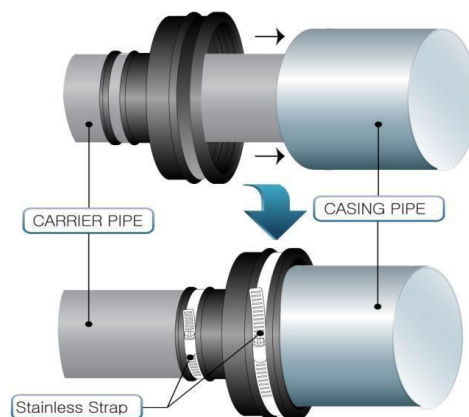
INSTALLATION GUIDE:

1. Prepare outside surfaces by removing dirt from casing and carrier pipe.
2. After carrier pipe is inserted into casing, slide small end of end seal over the carrier pipe with stainless steel banding clamp. Large end should face casing.
3. Position large end of end seal over the casing pipe.
4. Position banding clamp approximately 1" from the end of the casing pipe and then tighten onto the end seal.
5. Position banding clamp approximately 1" from the end of the end seal on the carrier pipe and then tighten.

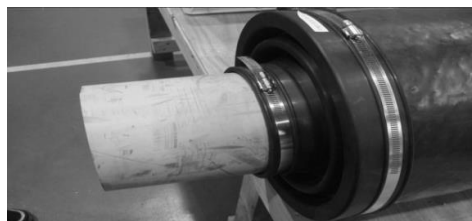
☐ Preparation



☐ Installation



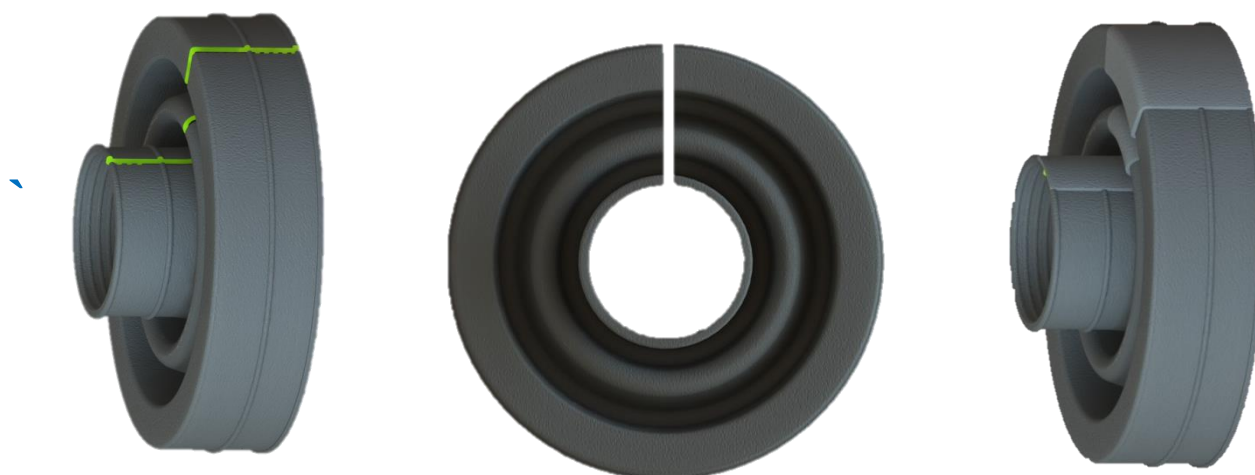
☐ After Installation





Option 1:

Pull-On Type can be used for Existing Pipeline and New Construction Piping with Flange.



End Seal Material	EPDM (Ethylene Propylene Diene Monomer)	
End Seal Thickness	about 4 to 5 mm	
Cover Material	EPDM (Ethylene Propylene Diene Monomer)	
Cover Thickness	about 1.5 to 2 mm	
Adhesive material	A36 MDF from DEMSUN Manufacturer, 705 fast adhesive from AKFIX Manufacturer (or equivalent)	
Shore hardness	60/65	[ASTM D1415]
Tensile strength	6.1 MPa	[ASTM D 412]
Ultimate	480% at break	[ASTM D412]
Strap material	SS 316L	



Step One

Providing suitable end seal size from table Page 3.

Step Two

Cutting selected end seal horizontally by sharp tool.

Step Three

Fixing end seal in the carrier pipe only.

Step Four

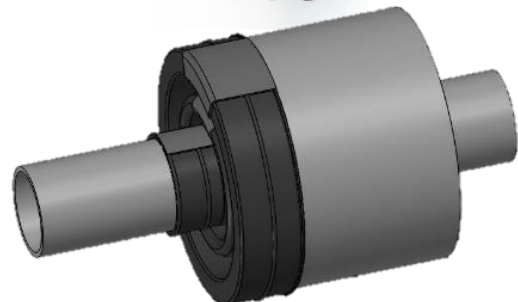
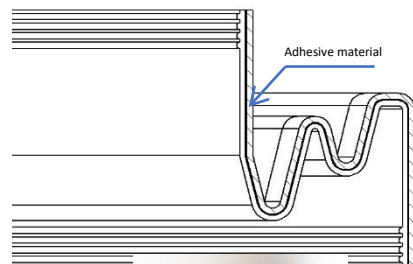
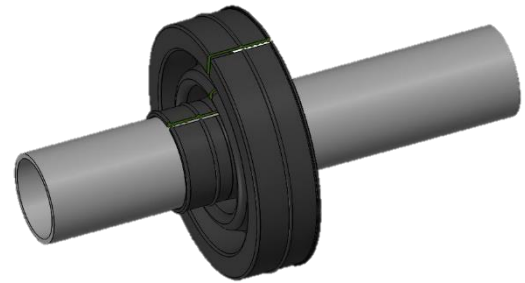
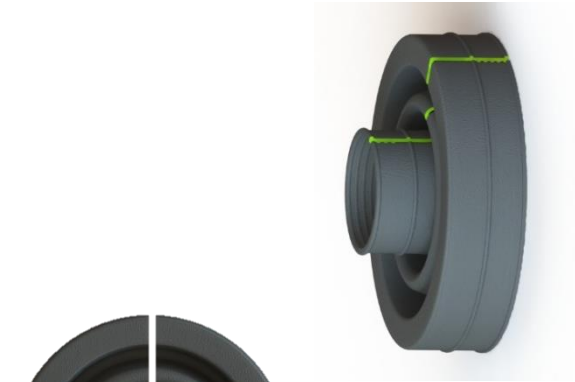
Rejoining both end by applying on the top of end seal Cover and adhesive material specify in the previous table

Step five

Waiting for complete curing for 30 Min.
Minimum

Step Six

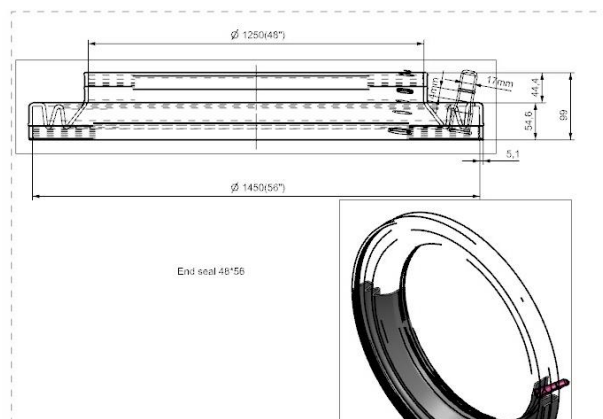
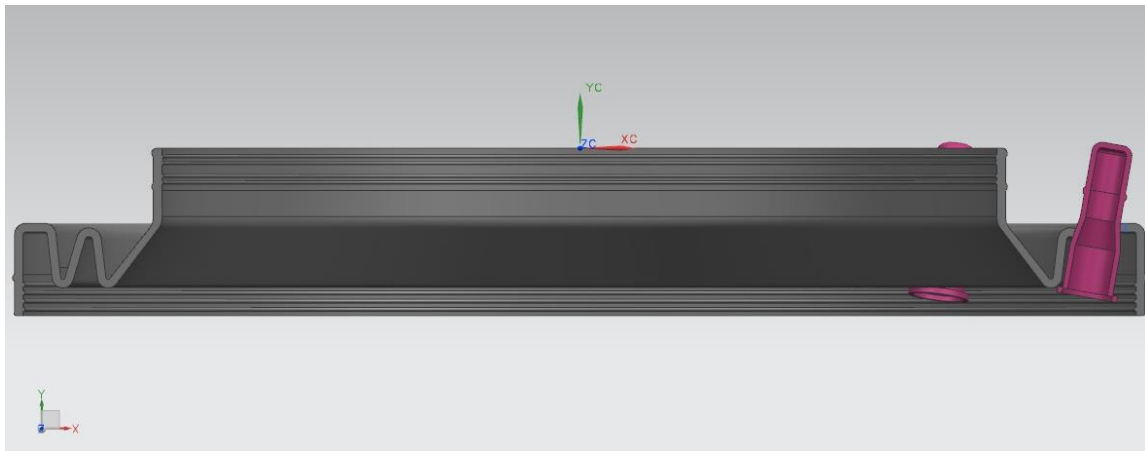
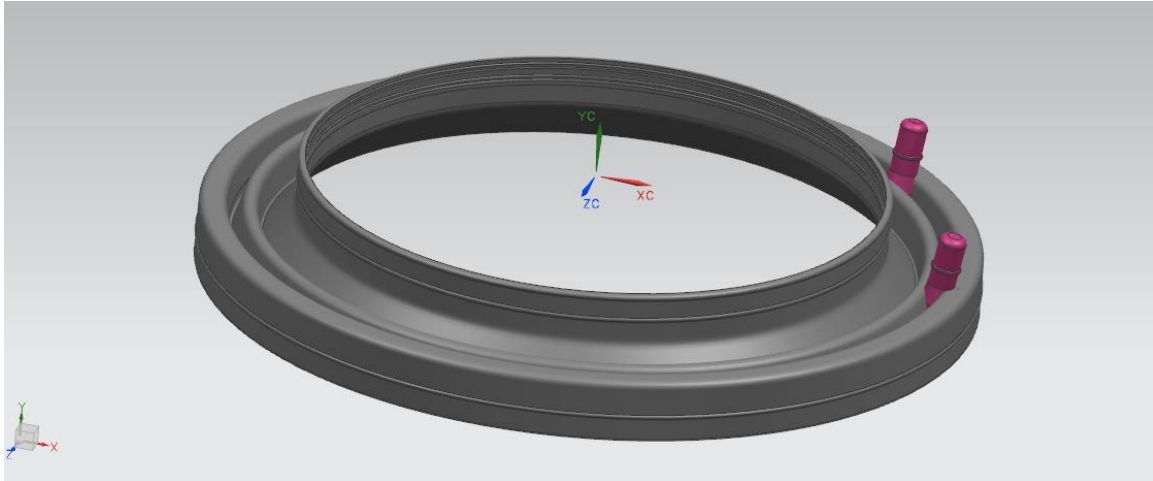
Fixing End Seal in the casing pipe.





Option 2: Customized Casing End Seal with Nozzles

- **APPROVED EGY-TEC. CO.** Can providing customized nozzles for our casing end seal as per client requirement.
- For special order please specify No. of nozzles, nozzles size and casing end seal size.





Option 3:

Open Type



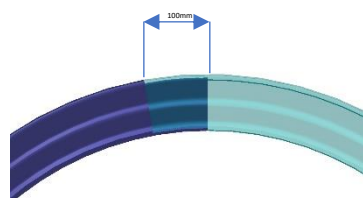


APPROVED EGY-TEC Open Type Casing End Seal		
Open Type Casing End Seal can be used for new constructions and old projects		
Material	EPDM (Ethylene Propylene Diene Monomer)	
Thickness	about 4 to 5 mm	
Shore hardness	60/65	[ASTM D1415]
Tensile strength	6.1 MPa	[ASTM D 412]
Ultimate	480% at break	[ASTM D412]
Strap material	SS 316L	
Adhesive material	A36 MDF from DEMSUN Manufacturer, 705 fast adhesive from AKFIX Manufacturer (or equivalent)	
Overlap Length	Minimum 100 mm.	

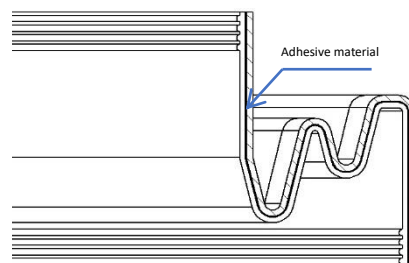
Step One



Step Two

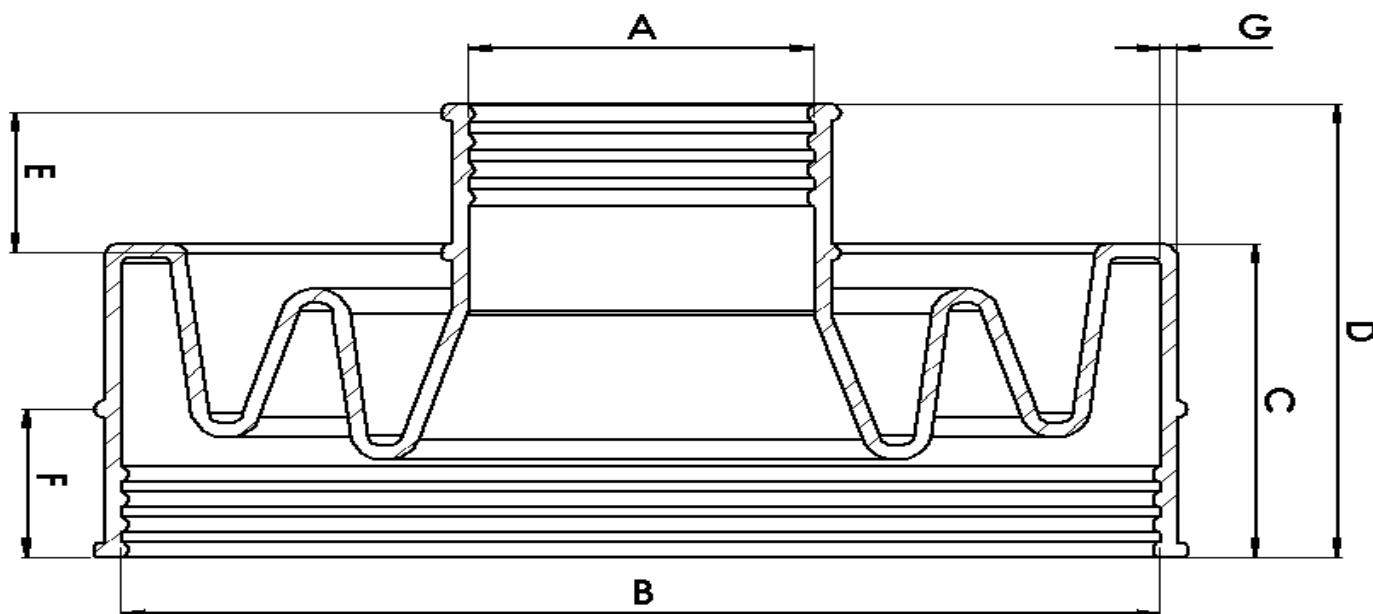


Step Three



Note:

1. Adhesive material takes 30 min to curing.
2. Open Type Casing End Seal shall be installed by qualified technician.



Overlap length shall be 100mm from perimeter.

Code No	Nominal Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
EG-0308-OT	3 x 8	73	200	53	85	25	25	4
EG-0410-OT	4 x 10	98	248	53	85	25	25	4
EG-0412-OT	4 x 12	98	294	53	85	25	25	4
EG-0612-OT	6 x 12	147	294	53	85	25	25	4
EG-0614-OT	6 x 14	147	345	53	85	25	25	4
EG-0816-OT	8 x 16	195	390	53	85	25	25	4
EG-0818-OT	8 x 18	195	445	53	85	25	25	4
EG-1016-OT	10 x 16	248	390	53	85	25	25	4
EG-1020-OT	10 x 20	248	494	53	85	25	25	4
EG-1218-OT	12 x 18	294	445	54	75	40	25	4
EG-1622-OT	16 x 22	393	545	54	75	40	25	4
EG-2026-OT	20 x 26	494	647	54	75	40	25	5
EG-2032-OT	20 x 32	494	800	54	75	40	25	5
EG-2430-OT	24 x 30	596	736	54	75	40	25	5
EG-3036-OT	30 x 36	736	889	54	75	40	25	5
EG-3440-OT	34 x 40	839	990	54	75	40	25	5
EG-3542-OT	35 x 42	864	1041	54	75	40	25	5
EG-3642-OT	36 x 42	889	1041	54	75	40	25	5
EG-4046-OT	40 x 46	990	1143	54	75	40	25	5
EG-4452-OT	44 x 52	1093	1295	54	75	40	25	5
EG-4856-OT	48 x 56	1194	1397	54	75	40	25	5



2nd Model:

Model: WRAP TYPE:

Wrap Type End Seal is designed to accommodate custom carrier/casing diameter combinations. They are made to customer supplied specifications so they may be used for any size casing/carrier differential.

Wrap Type is designed for eccentric installations and maintains its seal regardless of the pipe position in relation to the casing.

Wrap Type Specifications		
Material	EPDM (Ethylene Propylene Diene Monomer)	
Thickness	about 1.5 to 2 mm	
Shore hardness	60/65	[ASTM D1415]
Tensile strength	6.1 MPa	[ASTM D 412]
Ultimate	480% at break	[ASTM D412]
Strap material	SS 316L	
Adhesive Material	A36 MDF from DEMSUN Manufacturer, 705 fast adhesives from AKFIX Manufacturer (or equivalent)	
Overlap Length	Minimum 100 mm.	





Installation Instruction:



1. Spread the glue on both sides that are to fit together, wrapping both around the pipes.
2. Ensure that the edges will adhere with sufficient strength.
3. . Fix the pipes by the supplied straps.



(1)



(2)



(3)

Note:

1. Adhesive material takes 30 min to curing.
2. Wrap Type End Seal shall be installed by qualified technician.