

# GRAVITY SPECIAL PIPE COUPLING



## ANABEEB GRP Gravity Pipe

ANABEEB GRP Gravity pipes have many industrial applications and it can be used in sewers and hydropower lines and it is manufactured by Centrifugally Cast process in accordance with EN 14364. Anabeeb GRP gravity pipes are made of glass fibre reinforced plastic (GRP) with polyester resin and chopped glass fiber. Resin creates bond between the materials. Inner surface is of pure resin and it is as smooth as glass for good flow and less maintenance. High quality resins gives excellent chemical resistance and a service life of more than sixty years. ANABEEB GRP is producing Centrifugally Cast GRP pipes since 1996. Different applications and advantages of the material is mentioned below.

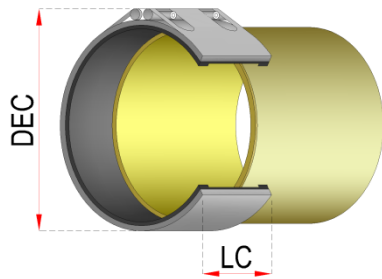
### Applications :

- ◆ Sewer Systems
- ◆ Potable Water
- ◆ Raw Water and Irrigation
- ◆ Drainage
- ◆ Industrial Applications
- ◆ Shaft and Manholes
- ◆ Hydro Power
- ◆ No Dig/ Trenchless Applications like Relining and Jacking Pipes.

### Advantages:

ANABEEB GRP pipe Systems distinguish themselves by a number of highly advantageous product qualities.

- 1. ANABEEB GRP pipes are OD controlled which gives the below benefits.**
  - ◆ Smooth outer surface.
  - ◆ Easy Installation at site.
  - ◆ Fit for various installation methods (Trench, Trenchless, relining) applications.
  - ◆ It can be cut at any place at site which avoids calibration of pipe ends for the fixing of coupler therein short pipes doesn't need to be taken back to factory for calibration and leads to saving in time & money.
- 2. Outer Layer of Ultra Violet Resistant**
  - ◆ High UV Protection outer layer with thickness of Resin & Silica sand helps to store pipes for longer period even in direct sun to avoid outer surface from any damage in case if the installation is delayed.
- 3. High Corrosive Resistant Inner Layer with pure Vinylester Resin of 1.5mm thickness.**
  - ◆ This gives the inner layer protection from any acids contents in liquid/sludge.
  - ◆ Smooth inner surface gives smooth flow to the liquid and doesn't allow any bacteria or sludge to stuck on the inner surface of the pipe which leads to reduce the maintenance cost of cleaning.
- 4. FWC Coupler with Full Faced EPDM rubber profile and lip formation (DBC).**
  - ◆ Which provides high leak tightness and helps in angular deflection
  - ◆ With the help of middle stopper it can protect the edges of the pipes not to collide with each other. GRP coupler acts as a gasket from outside and as a seal from inside between two pipes.
- 5. Highly compacted pipes due to the high speed rotation of the centrifugal casting process which results in the production of pipe with no air voids and overlapping.**
- 6. ANABEEB GRP pipes are tested 4 times of the nominal pressure which means if the nominal pressure is 6 bar our testing procedure for the acceptance criteria will be conducted on 24 bars. It allows pipe with better mechanical properties to withstand the pressure during peak times/holidays.**
- 7. ANABEEB GRP pipes standard length is 6 meters. It reduces the installation time and manpower as well.**

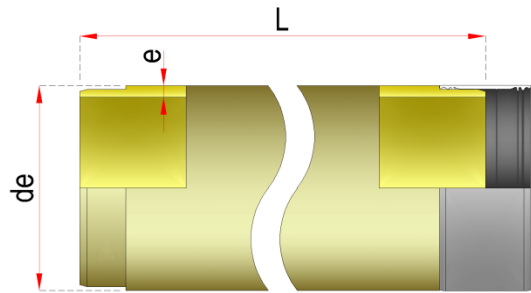


**Mechanical Coupling**

**Mechanical Coupling:**

The mechanical coupling consists of a stainless steel sleeve with a mechanical screw connection and an EPDM gasket seal (NBR on request). Couplings are supplied depending on availability; project-related dimensions are therefore only valid in consultation with the responsible ANABEEB GRP Application Engineering Department.

DN	de [mm]	LC [mm]	DEC [mm]
200	220	110	244
250	272	110	295
300	324	110	348
350	376	140	434
400	427	140	485
450	478	140	536
500	530	140	588
600	616	140	674
700	718	140	776
800	820	140	878
900	924	140	982
1000	1026	140	1084
1200	1229	210	1301
1400	1434	210	1536
1500	1499	210	1601
1600	1638	210	1740
1800	1842	210	1884
2000	2047	210	2149
2200*	2250	310	2313
2400*	2453	310	2467



**Stainless Steel Coupling**

**Stainless Steel Coupler:**

The SS Coupling consists of Stainless Steel Sleeve flushed with OD of pipe with EPDM gasket seal (NBR on request).

DN	de [mm]	L1 [mm]	D10 [mm]
200	220	121	219.9
250	272	121	271.3
300	324	121	323.4
350	376	121	375.3
400	427	121	426.5
500	530	121	528.8
600	616	121	615.3
700	718	121	717.0
800	820	121	818.8
900	924	142	922.1
1000	1026	142	1024.4
1200	1229	142	1226.9
1400	1434	142	1431.9
1500	1535	202	1533.0
1600	1638	202	1632.1
1800	1842	202	1836.8
2000	2047	202	2040.4

\*Available on Request



