

# API<sup>®</sup>

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αΠΩ*

## REINFORCED CONCRETE LARGE DIAMETER PIPE



API - PRODUCT CATALOGUE

## API LARGE DIAMETER PIPE

[www.api.com.my](http://www.api.com.my)

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# REINFORCED CONCRETE LARGE DIAMETER PIPES (LDP)

In moving forward to an ecofriendly carbon emission footprint, API uses **GREEN** cements in our concrete products. Products with blended cements have enhanced workability, long term strength gain and durability in marine conditions, sewerage applications and other aggressive environments.

## APPLICATIONS

Precast concrete pipe have many usages and applications. These applications include Culvert Crossing, Water Tank, Storage, Silo, Storm Water Drain, Service Tunnel, Hostel/Accommodation etc.

## WHY LARGE DIAMETER PIPE

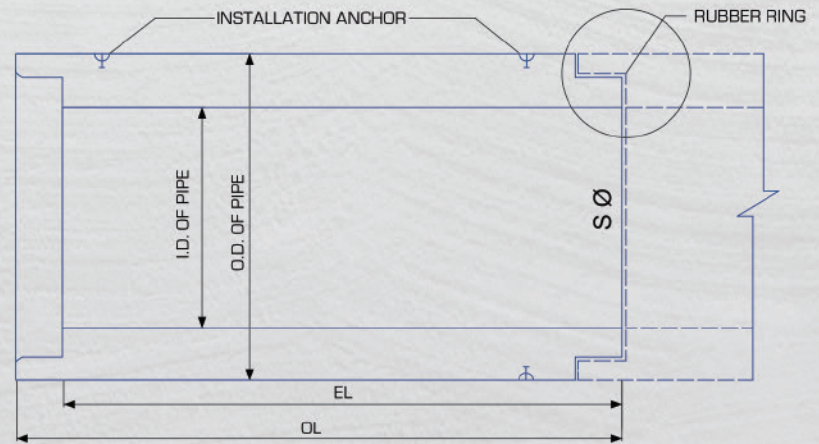
- An alternative to multiple small pipe or box culverts construction that caters for large storm water discharge or large sewerage application.
- A viable small bridge crossing over waterway.
- A simple underpass for light vehicle and pedestrian movement.
- A storage tanks for water, grains, service utilities or others.
- Worker's quarters / hostel / budget accommodation.

## SPECIFICATION

API manufactures vertical LDP to test loads of

- MS881
- AS4058

## LDP - TYPE & RANGE OF PIPES



## CRUSHING LOAD TABLES FOR AS4058 AND MS881

Test Load in kN/m to AS4058								
Nominal Diameter (mm)	Class 2		Class 3		Class 4		Nominal Length (M)	Approximate Weight per pipe (Tonne)
	Proof Load	Ultimate Load	Proof Load	Ultimate Load	Proof Load	Ultimate Load		
2100	70	105	105	158	140	210	3.00	8.00
2400	78	117	117	176	156	234	3.00	9.80
2700	86	129	129	194	172	258	2.50	10.50
3000	94	141	141	212	188	282	2.50	13.25
3300	102	153	153	230	204	306	2.25	14.80
3600	110	165	165	248	220	330	2.00	15.00

Test Load in kN/m to MS881								
Nominal Diameter (mm)	L		M		H		Nominal Length (M)	Approximate Weight per pipe (Tonne)
	Proof Load	Ultimate Load	Proof Load	Ultimate Load	Proof Load	Ultimate Load		
2100	96	120	146	183	184	230	3.00	8.00
2400	108	135	165	207	210	263	3.00	9.80
2700	124	155	186	233	235	294	2.50	10.50
3000	135	169	207	259	260	326	2.50	13.25

### notes:

1. Commonly supplied nominal sizes [DN] : DN 2100 - DN 3000
2. Nominal pipe length 2.0m to 3.0m [refer to table]
3. Other lengths are available.
4. Higher crushing test load strength pipes greater than class "H" / "Class 4" are available upon request.
5. Customised pipes with high concrete cover to reinforcement and pipes made with special cements or lining can also be manufactured by API.
6. The required strength of a concrete pipe depends on both the load to be carried by the installed pipe, and the supporting ground installation condition.
7. The load transmitted onto the pipe depends on the height and the type of fill material.

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