

## ZAP™ DUCTILE IRON CEMENT LINED PIPE

PN20 DN 225 – DN 750

Cement Lined, 400gm<sup>2</sup> Zinc Aluminium + Epoxy Topcoat

MODEL. VXDP2000	PN 20	DN 225-750
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**FOR CONVEYANCE OF POTABLE WATER, RAW WATER, IRRIGATION WATER AND SEWAGE UNDER PRESSURE**

ZAP™ – Ductile iron pipes are supplied with 400gm<sup>2</sup> Zinc Aluminium hot metal sprayed onto the external surface of the pipe plus epoxy topcoat to inhibit corrosion.

Optional Portland, Sulphate Resisting and High Alumina Cement Mortar Internal Lining

#### Features & Benefits

- PN20 Allowable Operating Pressure
- High Strength Ductile Iron
- Optional Internal Seal Coating
- AS/NZS 2280:2014 Certified
- WSAA Appraisal No: 1605
- Proven and Reliable Rubber Ring Joint



## ZAP™ PN20

### Size Range

DN100 – DN750

### Effective Length

5.7m Standard

### Pressure Rating

AOP 2.0 Mpa  
MAOP 2.4 MPa  
ASTP 2.5 Mpa

### Joint Type

Socket-Spigot “Push-On”  
EPDM Rubber Ring Joint  
Restrained rubber ring available on request

AS 1646

### Cement Lining

OPC – Ordinary Portland Cement  
CAC – Calcium Aluminate Cement  
SRC – Sulphate Resistant Cement

AS3972 GP, SR, CAC

### Optional Seal Coat

Bituminous Interline  
876

ISO 16132

### External Coating

400gm<sup>2</sup> Zinc Aluminium + Blue/Red Epoxy Topcoat

Metallic Zinc ISO 8179-1

### Polyethylene Sleaving

Protection against corrosive soils is achieved by the application of polyethylene sleaving

AS 3860 & AS3681

*PE Sleaving is a proven and cost effective means of corrosion protection.*

*Training in the correct application of polyethylene sleaving is recommended.*



## PN20 DICL PIPE PERFORMANCE DATA

Nominal size	DN	100	150	200	225	250	300	375	450	500	600	750
Mean External Diameter	mm	122	177	232	259	286	345	426	507	560	667	826
Mean Internal Diameter	mm	-	-	-	243	270	329	410	490	542	647	801
Effective Length	m	-	-	-	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Mass Including CML & Socket	kg	-	-	-	216	239	289	370	472	548	717	1048
AOP – Allowable Operating pressure	MPa	-	-	-	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
MAOP – Max Allow Operating Pressure	MPa	-	-	-	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
ASTP – Allowable Site Test Pressure	MPa	-	-	-	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Pipe Wall Thickness (Min)	mm	-	-	-	3.0	3.0	3.0	3.1	3.6	4.0	4.8	5.9
Pipe Wall Thickness (Nominal)	mm	-	-	-	4.5	4.6	4.6	4.8	5.4	5.8	6.7	8.0
Ring Bending Stiffness	kN/m/m	-	-	-	59	45	25	15	13	12	11	10
Allowable Deflection	%	-	-	-	3.2	3.4	4	4	4	4	4	4
Joint deflection	deg				3.5	3.5	2.5	2.5	2.5	2.5	2.5	1
No. Pipes per Semi Trailer	p/ST				72	64	56	50	32	24	18	8
Allowable Operating Pressure (AOP)	The allowable internal pressure, excluding surge that a component can safely withstand in service. Ductile iron pipe is classified by the PN number, based on the AOP											
Maximum Allowable Operating Pressure (MAOP)	Maximum internal pressure, including surge, that a component can safely withstand in service											
Allowable Site Test Pressure (ASTP)	Maximum pressure applied on site in a newly installed pipeline, includes a safety factor and allowance for surge											

NOTE – DN100, DN150 & DN200 are not available in pressure class PN20.

Data is subject to change without notice due to our continuing program of product development.

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Appraisal No: 1605



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HEAD OFFICE

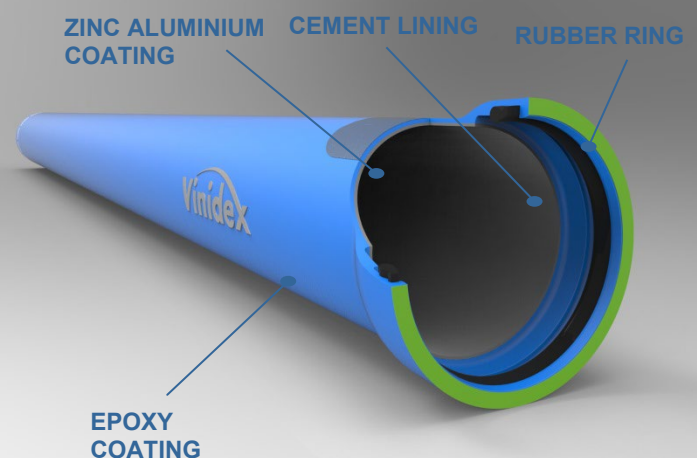
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