



BROCHURE

Ductile Iron Pipes and Fittings with **RASHMI-LOCK Restrained Jointing SYSTEM**

DN100 - DN600

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Contact Us

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RASHMI - LOCK (Restrained Joint Ductile Iron Pipeline System

RASHMI-LOCK Jointing system is a restrained semi flexible push-in-jointing of Ductile Iron Pipes. It is a Self-Restrained, semi-flexible jointing system of socket and spigot pipe. The joint can be deflected up to the designed value as per function of size range. Water or other fluids passing through the pipe line exert internal pressure on the walls of the pipe barrel and the same force is being transferred to the other pipe.

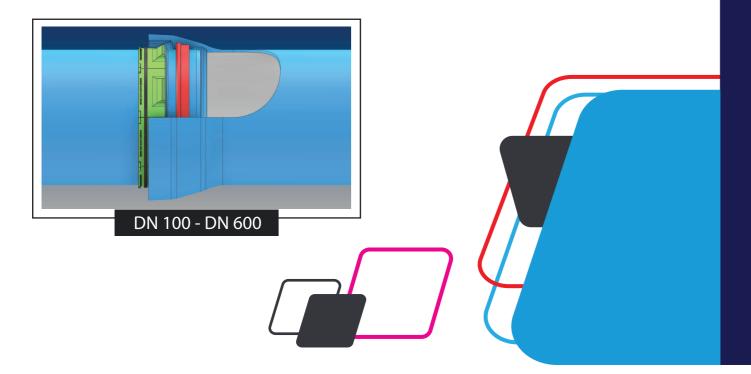
RASHMI-LOCK Jointing system helps in transferring the thrust forces generated to

next pipe through weld bead made on spigot of each pipe via lock segments. The Complete Jointing Assembly make joint self-restraining thus eliminating the

need of thrust blocks and facilitate trenchless laying of ductile iron pipe lines. Ductile iron pipes with RASHMI-LOCK Jointing system are quick to assemble and

well suited to be used in seismic zones, fault crossings, liquefaction zones, connections to structures, floating pipe lines, Hydro Power plants, laying on steep slopes, firefighting water mains and mine dewatering pipelines without thrust blocks or external restraining requirement.EN545/ISO 2531/ISO10804-1 with suitable range of fittings.

RASHMI-LOCK Jointing system is available in size range from DN100-DN600 as per



TECHNICAL DATA **RASHMI** -LOCK Ductile Iron Pipe -Technical Specifications

Table 1: RASHMI-LOCK Ductile Iron Pipe - Technical Specifications

Product Name	RASHMI –LOCK suitable for rest Push-on-Jointir
Size Range	DN 100mm to DI
Standard Length	5.5 m or custom
Internal Linings	 Sulphate resisti Blast furnace sl Ordinary Portlan High Alumina cl Poly urethane cl Seal coat : Under Zinc or Zinc-All
Outside Coatings	130g/m2 / 200g finishing layer of Bitumen
Coating of Joint Area	Blue or Red Epox
Conforming Specifications	Design : ISO 10803 Product : ISO 2531 Joint : ISO 10804 Rubber Gasket : IS

*Options available only with prior arrangement

01

trained semi flexible ing

ON 600mm

mized length *

ting cement

alag cement

and cement

cement

coating: Under development.

der progress

luminium deposition of g/m2 / 400g/m2 with of Blue or Red Epoxy,

oxy / Bituminous coating

)3 31; BS EN 545

ISO 4633, BS EN 681-1

RASHMI -LOCK SYSTEM Pipe Dimensions



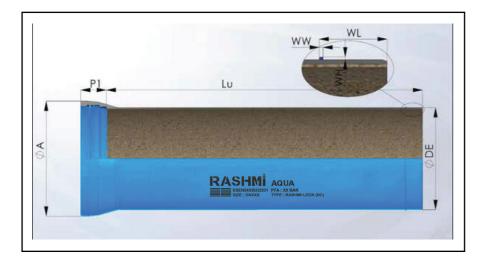


Table 2: RASHMI -LOCK Pipe Dimensions

Size		Dimensions (mm)			
DN	DE	Water / Sewerage	High Pressure application	Ρl	WL
		А	А		
100 150 200 250 300 350 400 500 600	180 170 220 274 326 378 429 532 635	170 246 290 354 410 460 540 670 786	170 246 290 354 410 460 ** ** **	123 130 142 163 174 171 183 200 216	85 95 100 105 110 117 117 128

**deailes can be arranged on request



RASHMI -LOCK SYSTEM Allowable Pressure

Table 3 : RASHMI LOCK allowable Pressure

Size	PFA [÷]	PFA *(Allowable operating Pressure), bar		Allowable	No. of
DN		Water / Sewerage	High Pressure application	angular deflection	locks
				{O}	(KN)
100 150 200 250 300 350 400 500 600		40 40 40 40 30 30 30 30 35	100 100 64 64 45 38 35 35 35 *	5 5 4 4 4 3 3 3 2	5 5 8 8 8 8 8 9 10







ADVANTAGES RASHMI-LOCK Ductile Iron Pipe

Advantages include:

• Provides a robust pipe system with simple locking mechanism.

from DN 100 to DN 600 respectively.

· It can withstand pressure surges and possible unforeseen influences over an enduring lifetime.

• The simple locking system saves a great deal of installation time.

• Polyurethane coating and lining (wherever provided) provides extraordinary high C-value, more adhesive strength, more elasticity, higher mechanical strength and high abrasive resistance.

• The deflection in the jointing system provides flexibility during operation.

• It can be used in regions with elevated earthquake or earth settlement risks.

• The very high angular deflections make these joints suitable even for the laying in complicated and demanding intersections.

· Advantage of laying without anchorage or thrust blocks in conventional open trenches.

AREAS OF APPLICATION

RASHMI -LOCK Restrained Joint Piping System

- Trenchless laying of Ductile Iron pipe lines
- Laying of Ductile iron pipe lines without thrust blocks for water Application.
- For higher pressure applications.
- Laying of Pipe lines on steep slopes
- Hydro-power applications
- · Mining applications such as dewatering and temporary water distributions
- Bridge pipelines
- · Laying by Horizontal Directional Drilling -Trenchless Application
- Snow making pipelines
- Firefighting Mains
- District Cooling/Heating Pipelines
- Floating Pipelines in water
- The pipes are designed to sustain high pressure ranging from 100 bar to 16 bar in sizes

