



D2241/RJIB Certa-Lok® Yelomine® PVC Pressure Pipe Restrained Joint Integral Bell

NAPCO's D2241/RJIB Certa-Lok® Yelomine® PVC Pressure Pipe is manufactured to meet the demands of today's municipal needs for water and wastewater applications. Certa-lok pipe utilizes precision-machined grooves on the pipe and in the integral bell which, when aligned, allow a spline to be inserted, resulting a fully circumferential restrained joint. A flexible elastomeric gasket in the integral bell provides a hydraulic seal.

Trenchless & Restrained Joint Open-Cut Applications:

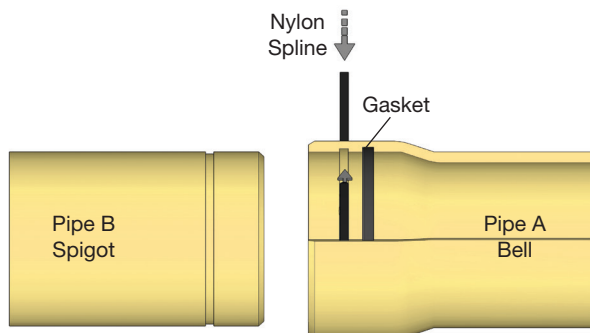
This unique restrained joint pipe system is designed for trenchless applications with robust tensile strength for pulling multiple segments underground. The smooth curve at the bell specifically reduces friction and allows for quick and easy assembly without interrupting the pulling process. This product reduces the jobsite footprint and minimizes community disruption with a reduced need for larger staging area and traffic control.

Yelomine Formulation Enhancement for Aboveground and Temporary Bypass Applications:

Yelomine products are manufactured from a specially formulated PVC compound that contains impact modifiers and UV inhibitors. This special formulation provides up to 6x the impact strength of normal PVC pipe over an extended period of time allowing for Yelomine products to be used above ground and in high-impact situations like temporary bypass. Joints assembled with the non-permanent gasket option can be disassembled and reused for future jobs or system changes.



Applications	Potable Water	Wastewater	Reclaimed Water
Color:	Yellow	Green	Purple
Certifications:	NSF 61	None	None



Short Form Specification	
Pipe Standard:	ASTM D2241
Diameter Std.:	Iron Pipe Size (IPS)
Nominal Sizes:	2", 3", 4", 6", 8", 10", 12", 14", 16"
Dimension Ratios & Pressure Ratings:	SDR 21 - 200 psi SDR 17 - 250 psi
Standard Lay Length:	20'
Pipe Compound:	ASTM D1784 Cell Class 12454 with Yelomine Technology
Pipe Joint Std.:	ASTM D3139
Max. Angular Joint Deflection:‡	0.5°
Gasket Standard:	ASTM F477
Gasket Material Offering:	NBR
Installation Std.:	ASTM D2774

* See note about the proper gasket choice for your application.
‡ See Installation Guide for more information.

INSTALLATION METHODS

- Above Ground
- Temporary Bypass
- Static Pipe-bursting
- Horizontal Directional Drilling
- Open-cut



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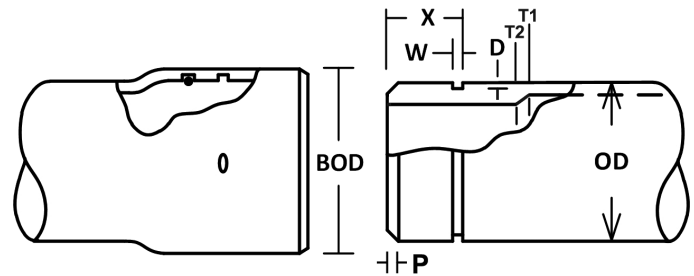
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D2241/RJIB CERTA-LOK® YELOMINE™ PIPE DIMENSIONS										
Nom. Size	Outside Diameter (OD)	SDR	Pipe							
			Min. Wall Thickness (T1)	Flow Internal Diameter (ID)	X	W	D	P	BOD	Weight (lb/ft)
4"	4.500	21	0.214	4.072	3.000	0.375	0.135	0.241	5.112	1.9
		17	0.265	3.970					5.264	2.3
6"	6.625	21	0.316	5.993	3.000	0.375	0.135	0.241	7.500	4.1
		17	0.390	5.845					7.737	4.9
8"	8.625	21	0.410	7.805	3.163	0.500	0.145	0.634	9.750	6.7

Notes:

1. These dimensions are for estimating purposes only. All dimensions are in inches unless otherwise specified.
2. SDR = Standard Dimension Ratio
3. ASTM Pressure Class @ 73°F and includes 2:1 safety factor.
4. Maximum Pull Force based on actual testing and includes 2:1 safety factor.
5. Internal diameter calculated using nominal outside diameter and minimum wall thickness.
6. Pipe spigot has thickened wall to provide additional joint strength. Ask us for assistance with mandrel sizing if needed.

JOINT PERFORMANCE DATA				
Nom. Size	DR	Pressure Class (psi)	Min. Bend Radius (ft)	Max. Pull Force (lbf)
4"	21	200	75.0	6,500
	17	250		6,800
6"	21	200	100	8,200
	17	250		11,300
8"	21	200	144	15,500





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D2241/RJIB CERTA-LOK® YELOMINE™ CERTA-LOK® ACCESSORIES									
Application	Nom. Size	Splines				Gaskets			
		Material	Size	Length	Part Number	Material	Shape	Size	Part Number
Permanent Standard*	4"	Nylon	0.250 Dia	18	S4518RN0	NBR	Round	0.240	OR040YMPI
	6"	Nylon	0.250 Dia	24	S0624RN0	NBR	Round	0.313	OR060YMPI
	8"	Nylon	0.313x0.313	32	S0832SN1	NBR	Round	0.400	OR080YMPI
Non-Permanent Standard*	4"	Nylon	0.250 Dia	18	S4518RN0	NBR	Round	0.210	OR040YMNN
	6"	Nylon	0.250 Dia	24	S0624RN0	NBR	Round	0.275	OR060YMNN
	8"	Nylon	0.313x0.313	32	S0832SN1	NBR	Round	0.375	OR080YMNI

* Non-permanent gaskets are typically used in temporary bypass applications that require disassembly and reuse of the joint. They should never be specified for permanent, buried, or submerged applications.

Permanent gaskets are slightly larger and make disassembly of the joint more difficult. They are intended for all installations that do not require disassembly during the system's service life including buried installation, river and road crossings, and all installations that would expose joints to long-term or excessive misalignment due to external loads.

If in doubt as to which gasket should be chosen, consult your NAPCO Sales Representative or Technical Services Group.

D2241/RJIB BELL DETAIL:

