

PRODUCT SPECIFICATION

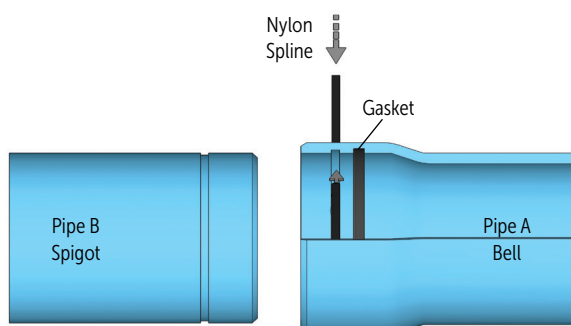
AQUASPRING® C900 CERTA-LOK® RJIB WITH FLUID-TITE® GASKET PVC PRESSURE PIPE | Restrained Joint Integral Bell

Our AquaSpring® C900 Certa-Lok® RJIB PVC Pipe is manufactured to meet the demands of today's municipal needs for water and wastewater pressure applications. This unique integral bell restrained joint pipe system is designed for trenchless applications with robust tensile strength for pulling multiple segments underground. The integral bell design reduces friction and allows for quick and easy assembly, without interrupting pullback.

A segmented PVC pipe solution, this product reduces the jobsite footprint and minimizes community disruption with a reduced need for jobsite staging area and traffic control. The Fluid-Tite gasket offered in sizes 6" through 24" has a superior sealing surface for a leak-free joint and greater deflection capability.

INSTALLATION METHODS

- Horizontal directional drilling (HDD)
- Static pipe-bursting
- Open-cut
- Carrier pipe inside casings



SHORT FORM SPECIFICATION

Pipe Standard:	AWWA C900-22
Diameter Std.:	Cast Iron Outside Diameter (CIOD)
Nominal Sizes:	6", 8", 10", 12", 16", 18", 20", 24"
Dimension Ratios & Pressure Ratings:	DR 25 – 165 psi DR 18 – 235 psi† DR 14 – 305 psi†
Lay Length:	20'
Pipe Compound:	ASTM D1784 Cell Class 12454
Pipe Joint Std.:	ASTM D3139
Max. Angular Joint Deflection:‡	0.5°
Gasket Standard:	ASTM F477, UL 157
Gasket Material Offering:	EPDM** Optional - Nitrile (NBR), SBR
Installation Std.:	AWWA C605

†FM 1612 calculates pressure ratings differently than AWWA with DR 18 as 185 psi and DR 14 as 250 psi.

‡See Installation Guide for more information.

*Excludes 16" through 24" nominal size

**As of January 2022, EPDM gaskets will start replacing the previous default gasket material option – IR/SBR

Applications	Potable Water	Waste-water	Reclaimed Water
Pipe Color:	Blue	Green	Purple
Certifications:	NSF 14 NSF 61 FM 1612* UL 1285* CSA B137.3	CSA B137.3	CSA B137.3

*See Certification Letter for full explanation and list of exceptions.



Only products bearing the NSF Mark are Certified





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GASKET PVC PRESSURE PIPE | Restrained Joint Integral Bell

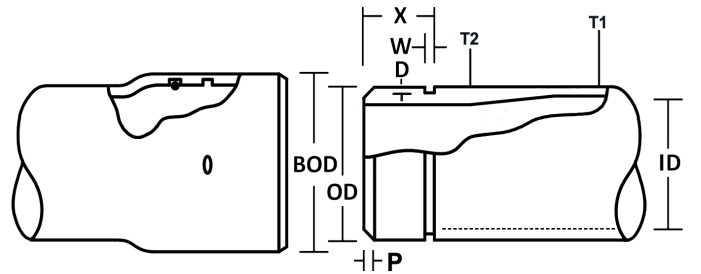
AQUASPRING® C900 CERTA-LOK® RJIB PVC PIPE											
Nom. Size	Outside Diameter (OD)	DR	Pipe								
			Min. Wall Thickness (T1)	Spigot End Wall Thickness (T2)	Internal Diameter (ID)	X	W	D	P	BOD	Weight (lb/ft)
6"	6.900	18	0.383	0.513	6.134	3.000	0.500	0.145	0.271	7.816	5.3
		14	0.493	0.661	5.914					8.030	6.6
8"	9.050	18	0.503	0.674	8.044	3.163	0.500	0.145	0.634	10.262	9.1
		14	0.646	0.866	7.758					10.542	11.5
10"	11.100	18	0.617	0.890	9.866	3.625	0.750	0.215	0.634	12.781	13.7
		14	0.793	1.105	9.514					13.177	17.3
12"	13.200	18	0.733	1.085	11.734	3.625	0.750	0.215	0.634	15.247	19.4
		14	0.943	1.325	11.314					15.681	24.5
16"	17.400	25	0.696	0.956	16.008	3.673	0.875	0.265	0.634	19.221	24.6
		18	0.967	1.349	15.466					19.841	33.7
18"	19.500	25	0.780	1.028	17.940	4.035	1.100	0.300	0.750	21.445	31.0
		18	1.083	1.435	17.334					22.175	42.4
20"	21.600	25	0.864	1.211	19.872	4.035	1.100	0.300	0.750	24.000	38.3
		18	1.200	1.623	19.200					24.700	52.3
24"	25.800	25	1.032	1.208	23.736	4.035	1.100	0.300	0.750	28.100	54.4
		18	1.433	1.771	22.934					29.100	74.8

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PERFORMANCE DATA					
Nom. Size	DR	Pressure Class (psi)	Min. Bend Radius (ft)	Max. Pull Force (lbf)	*Max % Change per 20' Stick
6"	18	235	144	20,100	7
	14	305		22,300	
8"	18	235	188	27,500	5.25
	14	305		31,000	
10"	18	235	232	49,500	4.37
	14	305		52,600	
12"	18	235	275	60,000	3.68
	14	305		60,000	
16"	25	165	363	68,500	2.8
	18	235		72,000	
18"	25	165	406	81,500	2.45
	18	235		101,000	
20"	25	165	450	102,400	2.28
	18	235		117,500	
24"	25	165	538	125,000	1.93
	18	235		126,000	

- Notes:
1. These dimensions are for estimating purposes only. All dimensions are in inches unless otherwise specified.
 2. DR = Dimension Ratio
 3. AWWA 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. Additional wall thickness provides additional joint strength in machined areas. This has been calculated to have a negligible effect on flow performance.
 7. Contact Technical Services for assistance with mandrel sizing.
 8. 16" nominal size is not listed to UL 1285 or FM 1612.



*Refer to "Changing Direction of PVC Pipelines" Technical Bulletin for more information.

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AQUASPRING™ C900 CERTA-LOK® ACCESSORIES								
Application	Nom. Size	Splines				Gaskets		
		Material	Size	Length	Part Number	Material	Shape	Part Number
Standard	6"	Nylon	0.250x0.375	24	S0624TN0	EPDM	Profile	GSPR030600
						NBR (Nitrile)	Profile	GSPR550600
	8"	Nylon	0.250x0.375	32	S0832TN0	EPDM	Profile	GSPR030800
						NBR (Nitrile)	Profile	GSPR550800
	10"	Nylon	0.375x0.625	39	S1039TN0	EPDM	Profile	GSPR031000
						NBR (Nitrile)	Profile	GSPR551000
	12"	Nylon	0.375x0.625	46	S1246TN0	EPDM	Profile	GSPR031200
						NBR (Nitrile)	Profile	GSPR551200
	16"	Nylon	0.500x0.750	60	S1660TN0	EPDM	Profile	GSPR041600
						IR/SBR	Profile	GSPR001600
						NBR (Nitrile)	Profile	GSPR561600
	18"	Nylon	0.563x0.975	68	S1868TN0	EPDM	Profile	GSPR041800
						IR/SBR	Profile	GSPR001800
						NBR (Nitrile)	Profile	GSPR561800
	20"	Nylon	0.563x0.975	75	S2075TN0	EPDM	Profile	GSPR042000
						NBR (Nitrile)	Profile	GSPR562000
						IR/SBR	Profile	GSPR002000
	24"	Nylon	0.563x0.975	88	S2488TN0	EPDM	Profile	GSPR042400
						IR/SBR	Profile	GSPR002400
						NBR (Nitrile)	Profile	GSPR562400

Some or all of these products are protected by patents. Visit www.westlakepipe.com/patents for more information.