

Company Overview:

Yelomine for Temporary Bypass in Canada

Presented by:

Michal Pawelczak – Engineer





North American Locations:



- 1. Houston, TX (Corporate)
- 2. Wichita Falls, TX
- 3. Yucca, AZ
- 4. Lodi, CA
- 5. McPherson, KS
- 6. Booneville, MS
- 7. Greensboro, GA
- 8. Leola, PA

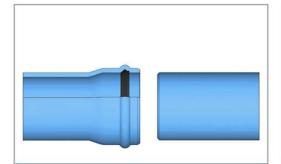
- 9. Janesville, WI
- 10. Shelby, MI
- 11. Laval, QC
- 12. Woodbridge, ON
- 13. Winnipeg, MB
- 14. Calgary, AB
- 15. Abbotsford, BC
- 16. Langley, BC





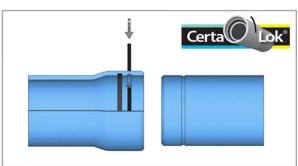


Solutions Portfolio:



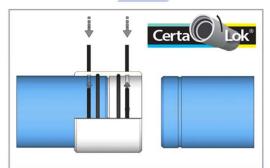
IB: (Bell & Spigot)

- · Water, Sewer, & Reclaim
- Open cut installation
- CIOD: AWWA C900
- IPS: ASTM D2241
- PSM: ASTM D3034/F679
- Rieber Gasket/ASTM F477



RJIB: (Restrained Joint Integral Bell)

- · Water, Sewer, & Reclaim
- Trenchless or open-cut installation
- CIOD: C900 Certa-Lok®
- IPS: D2241 Certa-Lok®
- Certa-Flo™ Gravity Sewer
- Yelomine® temporary bypass
- 4" through 12"
- Certa-Com[™] electrical/communication
- O-ring or Profile Gasket/ASTM F477



RJ: (Restrained Joint Coupled)

- · Water, Sewer, & Reclaim
- Trenchless or open-cut installation
- CIOD: C900 Certa-Lok®
- IPS: D2241 Certa-Lok®
- 2" through 24"
- O-ring or Profile Gasket/ASTM F477

-IB

rieber gasketed integral bell

-RJIB

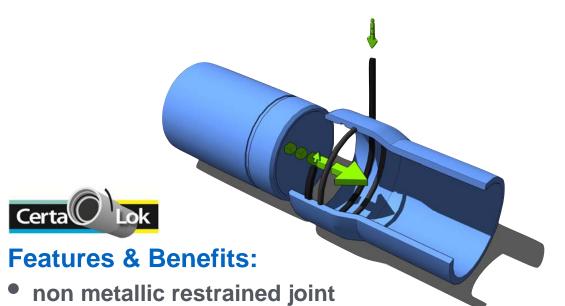
restrained-joint integral bell

RJ

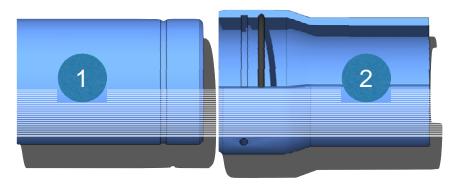
restrained-joint coupled

Certa-Lok PVC Pipe:

Certa-Lok RJIB Joint:



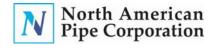
- pressure & gravity pipe
- trenchless or open-cut installations
- Profiled gasket available in styrene (SBR)
- Certa-Lok RJIB Pipe
- **RJIB Bell End**
- Fluid-Tite Gasket
- Certa-Lok Spline











Certa-Lok PVC Pipe: RJIB Portfolio of Products . . .

Pressure: CIOD	Pipe Sizes	Class	Pressure Rating
C900/RJIB Certa-Lok®	6" through 12"	DR18	235 psi
	6" through 12"	DR18	235 psi
Gravity Sewer: IPS	Pipe Sizes	Class	Pipe Stiffness
Certa-Flo™	10", 12"	SDR 26	115 psi
	4", 6", 8"	SDR 21	224 psi
Pressure: IPS	Pipe Sizes	Class	Pressure Rating
D2241/RJIB Certa-Lok [®] *Yelomine [®]	4", 6", 8"	SDR 21	200 psi
	4", 6"	SDR 17	250 psi



* Yelomine® is a unique, modified PVC compound designed to be sunlight & impact resistant for reliable aboveground and temporary bypass use.

Electrical/Communication	Pipe Sizes	Schedule	
Certa-Com TM (meets NEMA TC-2)	3" through 6"	40	
	8"	80	



Certa-Com[™] PVC pipe features Certa-Lok[®], the industry original non-metallic mechanically restrained joint system designed for use in electrical and communication conduit systems. Certa-Com[™] PVC pipe is made in iron pipe size (IPS) outside diameters and meets all performance requirements of NEMA TC-2 and UL 651.





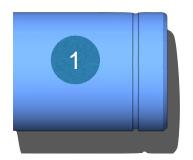


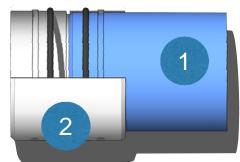
Certa-Lok PVC Pipe:

Certa-Lok RJ Coupled Joint:



- pressure & gravity pipe
- trenchless or open-cut installations
- O-ring gasket available in styrene (SBR) & nitrile (NBR)
- Certa-Lok Pipe
- Certa-Lok Coupling
- O-Ring Gasket
- 4 Certa-Lok Splines













Certa-Lok PVC Pipe: RJ Coupled Portfolio of Products . . .

Pressure: CIOD	Pipe Sizes	Class	Pressure Rating
C900/RJ Certa-Lok®	4" through 12"	DR 18	235 psi
	4" through 12"	DR 14	305 psi
C905/RJ Certa-Lok®	14" through 24"	DR 25	165 psi
	14" through 24"	DR 18	235 psi
Pressure: IPS	Pipe Sizes	Class	Pressure Rating
D2241/RJIB Certa-Lok® *Yelomine®	6" through 12", 16"	SDR 26	160 psi
	4" through 12", 16"	SDR 21	200 psi
	2" through 8"	SDR 17	250 psi
	4" through 8"	SDR 13.5	315 psi
	4" through 8"	DR 12.43	350 psi

^{*} Yelomine® is a unique, modified PVC compound designed to be sunlight & impact resistant for reliable aboveground and temporary bypass use.







The Certa-Lok[™] Advantage:

Yelomine . . .

PVC Pipe for Above Ground & By-pass Use:

IPS = ASTM D2241 Pressure Rated 2" to 16"

- Yelomine (RJ & RJIB)
- UV Resitant
- Impact Resitant

YM IPS Outside Diameters		
Pipe Size	OD	
2"	2.375"	
3"	3.50"	
4"	4.50"	
6"	6.625"	
8"	8.625"	
10"	10.75"	
12"	12.75"	
14"	14.00"	
16"	16.00"	

ASTM Pressure Classes		
SDR	Pressure Class	
12.43	350 psi	
13.5	315 psi	
17	250 psi	
21	200 psi	
26	160 psi	
32.5	125 psi	



The Certa-Lok Advantage: Fast assembly . . .

less than 30 seconds per joint!



assemble joint

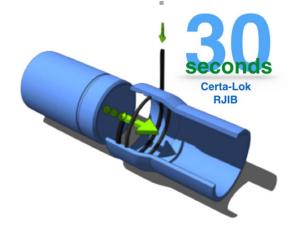


insert spline



on to the next joint

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The Certa-Lok Advantage:

Non-Trenchless Applications for Certa-Lok:

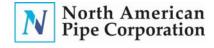
Yelomine for Temporary Water & Sewer Mains

- Certa-Lok pipe is available with Yelomine, a UV resistant, high impact compound for above ground use. Available in 2"-16" in 160 psi through 350 psi.
- Certa-Lok with Yelomine has impact strength up to 6-times greater than standard PVC pipe.









The Certa-Lok Advantage: The Yelomine Process and Product:

Yelomine for Temporary Bypass

- Yelomine Tapped Couplings
- Fabricated Fittings
- Nipple Pieces
- Adapters (Flange, Vic, SW, MIP, FIP)
- Perm vs Non Perm Couplings









Competition to Yelomine:

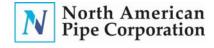
Aquamine PVC Piping System

- Aquamine is an almost identical copy of the Yelomine System. Victaulic owns the AM product line but does not manufacture anything. System is available from 2"-12"
- Aquamine and Yelomine is interchangable except in 8". We do make an adapter coupling in 8" to connect the two systems.







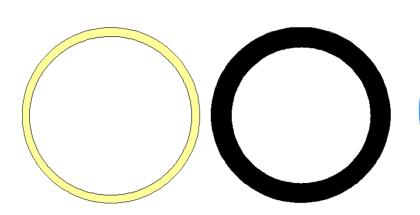


Competition to Yelomine:

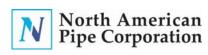
Fusible HDPE Piping Systems

 HDPE is often used in temporary bypass as well. Perception is that it is more durable than PVC due to wall thickness.





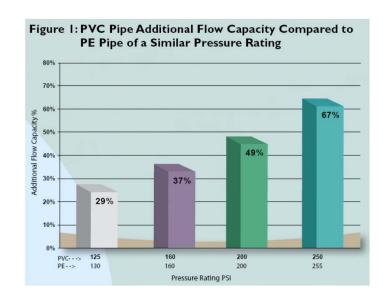


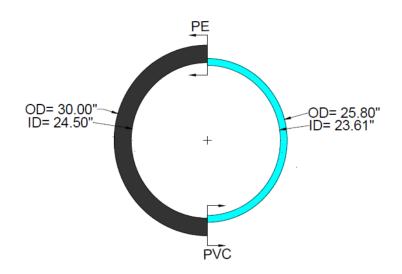


Competition to Yelomine:

Fusible HDPE Piping Systems

- PVC offers superior flow rates vs HDPE due to wall thickness. Thinner walls increase flow area, decrease frictional loss, and significantly improve pumping efficiency.
- No special tools / machines needed to install PVC
- Availability issues due to Gas industry demand.









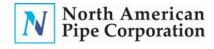
Yelomine in Canada

Yelomine for Temporary Water & Sewer Mains

- Yelomine is currently specified as the basis of design for temporary by-pass in Quebec. We currently sell roughly \$700,000 annually into this market.
- We currently have exclusive distribution with HiTech Piping LTD in Pointe-Claire, QC. They stock several sizes of pipe and fittings.
- HiTech has 5 inside salespeople and 4
 outside salespeople that cover Quebec,
 Ontario (up to Kingston), and the
 Maritimes. They have traditionally sold into
 the temporary by-pass and mining
 industries.
- Aquamine is a strong competitor in the Ontario market and has a significant amount of market share there. They prefer the blue pipe color.







The Certa-Lok Advantage: Other Applications for Certa-Lok:







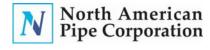












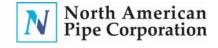
The Certa-lok Advantage

Yelomine in the Mining Industry

- Yelomine is used for above ground as well as below ground mining applications.
- Yelomine is used in sprinkler as well as drip for the leach mining of gold, copper, and other precious metals.
- Yelomine is used in underground mining for supplying water and dewatering. The majority of this business is for coal mining.
- We have sold material into the mining industry in Canada in areas like Val-d'Or and British Columbia.







The Certa-Lok Advantage:

Non-Trenchless Applications for Certa-Lok:

Yelomine for Bridge / Waterway Crossings

 Certa-Lok pipe is available with Yelomine, a UV resistant, high impact compound for above ground use

 Certa-Lok with Yelomine has impact strength up to 6-times greater than standard PVC pipe.









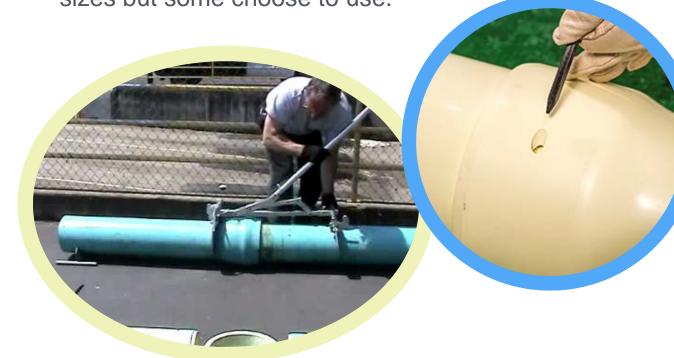
The Certa-Lok Advantage:

Tools for Certa-Lok:

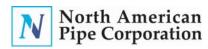
Special tools for installation and taking apart C/L

 Certa-Lok offers a spline insertion tool. Not usually needed on smaller sizes but some may chose to use this.

 Eagle Claw is a tool used to pull together and push pipe out of the bell or coupling.
 Again usually not needed on the smaller sizes but some choose to use.







Questions?

