

# Gasketed AWWA C905 CIOD Pressure Pipe

## Technical Specifications for 30" & 36"

### C905 Pressure Specification Data

Royal Municipal Solutions Gasketed Pressure Pipe shall be manufactured with nominal sizes of 30" and 36" with Dimension Ratios (DR) 18, 25, 32.5 or 41. Manufactured to meet the requirements of AWWA C905 and is certified to NSF-14.

The PVC material used in the manufacture of our pipe meets the physical properties of PVC cell class 12454 as specified in ASTM D1784.

Elastomeric gasket joints made for pipe meet or exceed the requirements of ASTM D3139. The steel-reinforced Double Seal Locked-In Rieber gaskets conform to the requirements of ASTM F477.

Pipe Markings are as specified in AWWA C905 and NSF-14.



### Physical Properties of Cell Class 12454

**Materials:**

Pipe shall be made of PVC plastic having a cell classification of 12454 as defined in ASTM D1784.

Property:	ASTM Test	Minimum
Tensile Strength, psi	D638	7,000
Tensile Modulus, psi	D638	400,000
IZOD Impact Strength	D256	.65ft-lbf/in.
Deflection Temperature	D648	158°F

### Pressure Ratings

Pipe	Psi
DR18	235
DR25	165
DR32.5	125
DR41	100

Standard lay length is 20 feet



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### Gaskets

The pipe utilizes a Double Seal Locked-In Rieber gasket system (DSLII) design which meets the requirements of ASTM D3139, *Standard Specifications for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals*.

The gaskets are reinforced with a steel band and conform to the requirements of ASTM F477: *Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe*.



Nominal Pipe Size Inches	Average Outside Diameter Inches	Min Wall Thickness DR18 235 psi Inches	Min Wall Thickness DR25 165 psi Inches	Min Wall Thickness DR32.5 125 psi Inches	Min Wall Thickness DR41 100 psi Inches	Average Bell Depth Inches	Insert Mark Line Inches
30	32.000	1.778	1.280	0.985	0.780	14.775	14.075
36	38.300	n/a	1.532	1.178	0.934	15.825	15.075

### SHORT FORM Specifications for Gasketed DR18, DR25, DR32.5 or DR41 Pressure Pipe

Royal Municipal Solutions Gasketed Pressure Pipe shall be manufactured with nominal sizes of 30" and 36" to CIOD dimensions. Dimension Ratios (DR) 18, 25, 32.5 and 41 shall meet the requirements of AWWA C905 Polyvinyl Chloride (PVC) Pressure Pipe and Fittings and be certified to NSF-14.