

# D2241: IPS PVC Pressure Pipe

SPECIFICATION DATA

## ASTM D2241 IPS SPECIFICATION DATA

Diamond IPS pressure-rated PVC pipe is made of compounds conforming to material requirements of ASTM D2241 in accordance with ASTM D1784. Pipe sizes (1 1/2" through 12") are made with an integral bell to utilize the Rieber gasket system for sealing, and meeting specifications defined in ASTM F477.

Diamond IPS pressure-rated PVC pipe meets all the dimensional, chemical, and physical requirements as outlined in ASTM D2241. Potable water pipe carries the mark of NSF, International in accordance with Standard 61.

Each male end shall be beveled to facilitate joining and reference marked to insure proper insertion depth. Diamond furnished lubricant is to be used in the joining process.



**Diamond IPS pressure-rated pipe is supplied in 22 foot laying lengths.**

### Physical Properties of PVC 12454:

Property	ASTM Test	Minimum
Specific Gravity	D792	1.40
Tensile Strength, psi	D638	7,000
Tensile Modulus, psi	D638	400,000
IZOD Impact Strength,	D256	.65ft., lb./in.



#### SHORT FORM Specification for Diamond PVC Water Pipe

Diamond PVC Water Pipe shall be made of compounds conforming to ASTM D1784 with a cell classification of 12454. Diamond PVC Water Pipe must meet all the dimensional, chemical, and physical requirements as outlined in ASTM D2241 and will be supplied in 22 foot laying lengths. Joints shall be formed using Rieber Technology. Potable water pipe shall be manufactured from NSF listed ingredients.

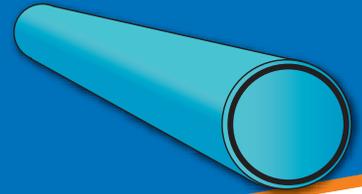


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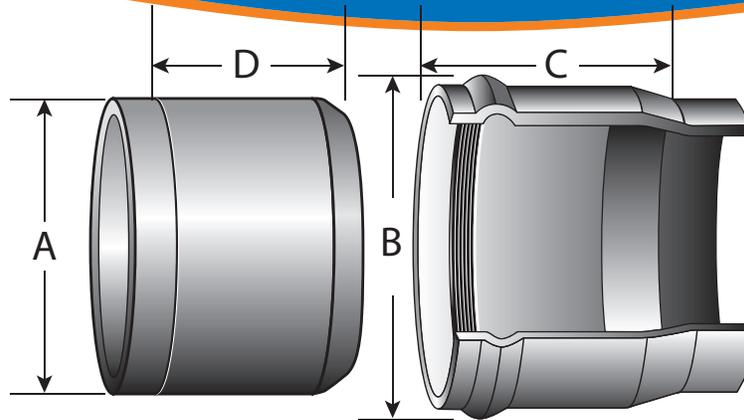


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**Reiber  
Joint  
Illustration**



D2241				SPECIFICATION DATA				Rural			
Nominal Pipe Size Inches	Insert Mark D Inches	Approximate Bell Depth C Inches	Bell Socket Diameter B Inches	Minimum Wall Thickness = (t)							
1.5"	4"	4-1/4"	2-7/8"								
2"	2-1/2"	4"	3-1/8"								
2.5"	4-1/4"	5"	4-3/8"								
3"	3"	4-1/2"	4-7/16"								
4"	3-1/2"	4-3/4"	5-1/2"								
6"	5"	5-1/2"	8-1/4"								
8"	5"	6"	10-1/4"								
10"	5-1/2"	6-1/2"	12-7/8"								
12"	5-3/4"	7"	15-1/8"								
Nominal Pipe Size Inches	Outside Diameter A Inches	SDR 13.5 315 psi (t) Inches	SDR 17 250 psi (t) Inches	SDR 21 200 psi (t) Inches	SDR 26 160 psi (t) Inches	SDR 32.5 125 psi (t) Inches	SDR 41 100 psi (t) Inches				
1.5"	1.900	0.141	0.112	0.090							
2"	2.375	0.176	0.140	0.113	0.091						
2.5"	2.875	0.213	0.169	0.137	0.110						
3"	3.500	0.259	0.206	0.167	0.135						
4"	4.500	0.333	0.265	0.214	0.173	0.138	0.110				
6"	6.625	0.491	0.390	0.316	0.255	0.204	0.162				
8"	8.625		0.508	0.410	0.332	0.265	0.210				
10"	10.750		0.632	0.511	0.413	0.331	0.262				
12"	12.750		0.750	0.606	0.490	0.392	0.311				

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