



# Vermeer®-Compatible Rod Specifications

Rod Size	D6/D7x11	D10x15	D16x20/D18x22	D24x26/D24a	D24x40F
<b>Manufacture Process</b>	Forged	Forged	Forged	Forged I.W.	Forged
<b>Weld Area / Tube Area</b>	N/A	N/A	N/A	1.42	N/A
<b>Connection</b>	FS 1	FS 1	FS 1	FS 1	FS 1
<b>Manufacture Spec.</b>	API 5D	API 5D	API 5D	API 5D	API 5D
<b>O.A.L. (S /S)</b>	72.0" +/- 0.25"	120.0" +/-0.25"	120.0" +/-0.25"	120.0" +/-0.25"	120.0" +/-0.25"
<b>Pipe Body O.D.</b>	1.660" +/- .031"	1.660" +/- .031"	1.90" +/- .031"	2.063" +/- .031"	2.375" +/- .031"
<b>Upset Diameter</b>	1.880" +/- .160"	1.880" +/- .160"	2.125" +/- .160"	2.25" +/- .160"	2.625" +/- .160"
<b>Wall Thickness</b>	0.240"	0.240"	0.240"	0.240"	0.280"
<b>Bend Radius</b>	98.1'	98.1'	112.3'	121.9'	140.4'
<b>Steel Chemistry</b>	4128M	4128M	4128M	4128M	4128M
<b>Type</b>	Seamless Hot Roll	Seamless Hot Roll	Seamless Hot Roll	Seamless Hot Roll	Seamless Hot Roll
<b>Quench &amp; Temper</b>	P110	P110	S135	S135	S135
<b>Tensile Strength</b>	145,000 lb. Min.	145,000 lb. Min.	145,000 lb. Min.	145,000 lb. Min.	145,000 lb. Min.
<b>Yield Strength</b>	135 Min/165 Max	135 Min/165 Max	135 Min/165 Max	135 Min/165 Max	135 Min/165 Max
<b>Charpy 10x5</b>	22ft-lb Avg/19 Min	22ft-lb Avg/19 Min	22ft-lb Avg/19 Min	22ft-lb Avg/19 Min	22ft-lb Avg/19 Min
<b>Final Inspection</b>	Mag. Particle	Mag. Particle	Mag. Particle	Mag. Particle	Mag. Particle
<b>Weight</b>	21 lbs.	35 lbs.	49 lbs.	56 lbs.	78 lbs.

  

Rod Size	D24x40IW	D33x44/D40x40	D50x100	D80x100	D100x120
<b>Manufacture Process</b>	Forged I.W.	Forged I.W.	Forged I.W.	Forged I.W.	Forged I.W.
<b>Weld Area / Tube Area</b>	1.6	1.6	1.55	1.67	1.67
<b>Connection</b>	FS 1	FS 1	FS 1	FS 1	2 7/8" IF-DS
<b>Manufacture Spec.</b>	API 5D	API 5D	API 5D	API 5D	API 5D
<b>O.A.L. (S /S)</b>	120.0" +/-0.25"	180.0" +/-0.25"	180.0" +/-0.25"	180.0" +/-0.25"	240.0" +/-1.50"
<b>Pipe Body O.D.</b>	2.375" +/- .031"	2.375" +/- .031"	2.875" +/- .031"	3.50" +/- .031"	3.50" +/- .031"
<b>Upset Diameter</b>	2.625" +/- .160"	2.625" +/- .160"	3.25" +/- .160"	3.625" +/- .160"	4.125" +/- .160"
<b>Wall Thickness</b>	0.280"	0.280"	0.362"	0.368"	0.368"
<b>Bend Radius</b>	140.4'	140.4'	170.0'	206.9'	206.9'
<b>Steel Chemistry</b>	4128M	4128M	4128M	4128M	4128M
<b>Type</b>	Seamless Hot Roll	Seamless Hot Roll	Seamless Hot Roll	Seamless Hot Roll	Seamless Hot Roll
<b>Quench &amp; Temper</b>	S135	S135	S135	S135	S135
<b>Tensile Strength</b>	145,000 lb. Min.	145,000 lb. Min	145,000 lb. Min	145,000 lb. Min	145,00 lb.Min
<b>Yield Strength</b>	135 Min/165 Max	135 Min/165 Max	135 Min/165 Max	135 Min/165 Max	135 Min/165Max
<b>Charpy 10x5</b>	22ft-lb Avg/19 Min	22ft-lb Avg/19 Min	22ft-lb Avg/19 Min	22ft-lb Avg/19 Min	22ft-lb Avg/19 Min
<b>Final Inspection</b>	Mag. Particle	Mag. Particle	Mag. Particle	Mag. Particle	Mag. Particle
<b>Weight</b>	78 lbs.	100 lbs.	156 lbs.	232 lbs.	289 lbs.



- Fully compatible with Vermeer® handling equipment.
- All rods are heat treated to a minimum 135,000 lb. yield strength for the ultimate in fatigue resistance.

VERMEER is a registered trademark of Vermeer Manufacturing Company of Pella, Iowa. There is no affiliation between Vermeer Manufacturing Company and Premier Drill Pipe, Ltd.