

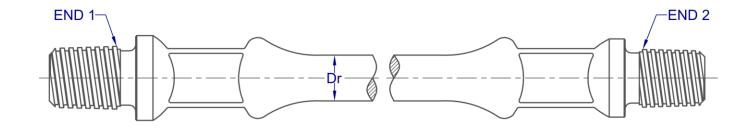
PDS: SRPXAR

Short Name: W02 Effective Date: 13/10/2017

First edition

# AlphaRod™ Pony Crossover

## **Dimensions:\***



End Combination	Dr	Available Grades	
	0.875"	AlphaRod™ CS	
7/8" Blue® - 7/8" API SR	(-0.016/+0.008)"	Alphakou C5	
	22.225 mm		
	(-0.41/+0.2)mm		
	1"	ALL D. ITM CC	
1" Blue® - 1" API SR	(-0.018/+0.009)"	AlphaRod™ CS	
	25.4 mm		
	(-0.46/+0.23)mm		
	1"		
1" Blue® - 7/8" Blue®	(-0.018/+0.009)"	AlphaRod™ CS	
	25.4 mm		
	(-0.46/+0.23)mm		
	1"		
7/8" Blue® - 1" API SR	(-0.018/+0.009)"	AlphaRod™ CS	
	25.4 mm		
	(-0.46/+0.23)mm		
	1.125"		
1 1/8" Blue® - 1" Blue®	(-0.02/+0.01)"	AlphaRod™ CS	
	28.575 mm		
	(-0.51/+0.25)mm		
	1.125"		
1" Blue® - 1 1/8" API SR	(-0.02/+0.01)"	AlphaRod™ CS	
	28.575 mm		
	(-0.51/+0.25)mm		

Nominal Lengths:a 2,

2, 4 ft

(0.61, 1.22 m)

<sup>\*</sup>For pins' dimensions refer to corresponding Sucker & Pony Rod PDS.

<sup>&</sup>lt;sup>a</sup>Other lengths might be available upon request.

#### **Steel Grades:**

The AlphaRod $^{\text{TM}}$  series was created to overcome more demanding requirements and offer a solution to fatigue and corrosion-fatigue problems. During oil production sucker rods face operative productions that get tougher by the day Mature conventional wells and non-conventional wells expose sucker rods in such ways that lead to an increase in premature fails. The new steel grades of the AlphaRod $^{\text{TM}}$  generation were specially designed to satisfy these operative conditions.

#### **Chemical Composition:**

Typical chemical compositions (wt%) listed in the following table.

Grade	C (%)	Mn (%)	Si (%)	S (%)	P (%)	Cr (%)	Ni (%)	Mo (%)	Other (%)
AlphaRod™ CS	0.23	0.55	0.25	0.01 max	0.010 max	0.95	0.30 max	0.70	B: 0.01 max, Ti: 0.1 max, Nb: 0.1 max

#### **Mechanical Properties:**

Mechanical properties are listed in the following table.

Grade	Yield Strength (0.2% offset)	Ultimate Tensile Stress	Elongation (8")	Reduction of Area	Hardness
AlphaRod™ CS	Min 110 kpsi (Min 758 MPa)	Min 118 kpsi (Min 814 MPa)	14% Min	70% Min	26 HRC

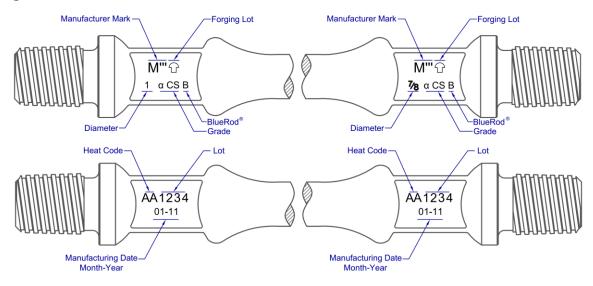
#### **Performance Data:**

For performance data information please refer to corresponding Rod & Pup Joint PDS.

#### **Non Destructive Testing:**

All raw material is carefully inspected using electromagnetic and/or ultrasonic methods to ensure the soundness of the final product.

## **Marking:**



#### **Non Destructive Testing:**

All raw material is carefully inspected using electromagnetic and/or ultrasonic methods to ensure the soundness of the final product.

#### **Color Code:**

Rod's ends are painted according to the following table:

Grade	Color Code
AlphaRod™ CS	Silver

<sup>\*</sup>Displayed colors are for guidance only.

### **Ordering Information:**

When placing an order please attach the following information:

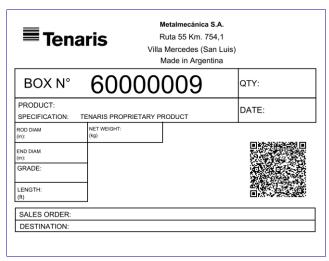
PDS: SRPXAR

End Combination: 1 1/8" Blue® - 1" Blue®

Grade: AlphaRod™ CS

Length: 2 ft

## **Labeling:**



\*Image for reference only

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