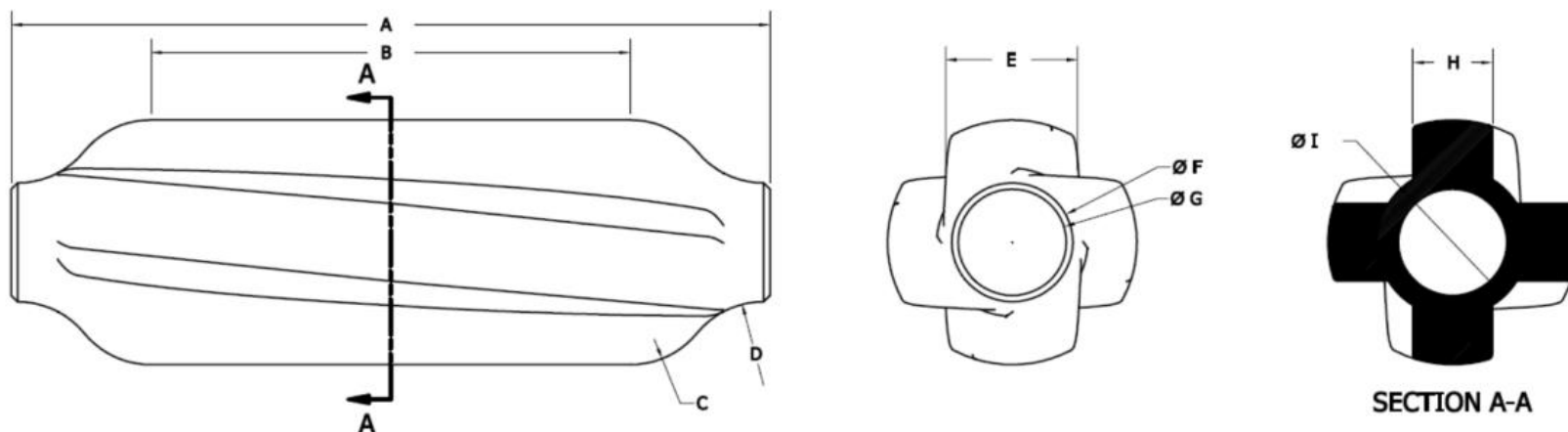


Helix™ Sucker Rod Guide

Dimensions:



Nominal size	Dimensions [mm]				
Tubing	A	B*	E*	H	Rod Sizes
2 7/8"	178	~110	~30	18.6	3/4", 7/8" & 1"

* Actual sizes may differ according to rod size

Rod size	Guide total volume	Erodible wear volume	Tubing arc scavenged
3/4"	219 cm ³ (13.4 in ³)	84.2 cm ³ (5.1 in ³)	222°
7/8"	211 cm ³ (12.9 in ³)	60.7 cm ³ (3.7 in ³)	231°
1"	199 cm ³ (12.1 in ³)	37.6 cm ³ (2.3 in ³)	231°

Materials:

Polyphenylene sulfide (PPS). 40% glass reinforced.

Property	Typical values PPS(**)	Test Standard PPS
Density	1.65 g/cm3	ISO 1183
Tensile Strength	195 MPa	ISO 527-2/1A
Elongation at break	1.9 %	ISO 527-2/1A
Tensile Modulus	14700 MPa	ISO 527-2/1A
Unnotched Charpy impact strength @23°C	53 kJ/m2	ISO 179/1eU
Unnotched Charpy impact strength @-40°C	53 kJ/m2	ISO 179/1eU
Notched Charpy impact strength @23°C	10 kJ/m2	ISO 180/1eA
Notched Charpy impact strength @-40°C	10 kJ/m2	ISO 179/1eA

Polyphthalamide polymer (PPA). 33% glass reinforced.

Property	Typical values PPA(**)	Test Standard PPA
Density	1.44 g/cm3	ISO 1183
Tensile Strength	193 MPa	ASTM D638
Elongation at break	2.1 %	ASTM D638
Tensile Modulus	13100 MPa	ASTM D638

** Values shown have been taken from a reduced number of tests and shall not be used to establish specifications.

Rod guide properties:

Property	PPS40	PPA33
Color	White	Black
Maximum Service Temperature*	180 °C	120 °C
Dynamic Friction Coefficient	0.3	0.25
Fiberglass Content	40 %	33 %

*Maximum temperature limitation is dependent on well condition.

Please contact Tenaris's Technical Sales Representative for further assistance

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