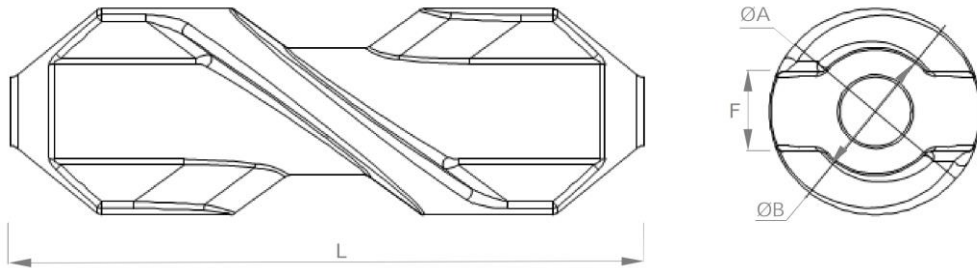


Helical Sucker Rod Guide

Dimensions:



Nominal size	Dimensions [mm]				
Tubing	L	A	B	F	Rod Size
2 7/8"	170	35.0	57.0	22.0	3/4"
		32.2	57.0	22.0	7/8"
		35.4	57.0	22.0	1"
3 1/2"	170	32.2	57.0	22.0	7/8"
		35.4	57.0	22.0	1"
		40.0	69.0	22.0	1 1/8"

*Actual sizes may differ according to rod size

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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