

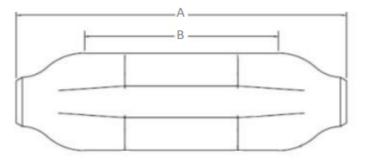
Sucker Rod String:GuidePDS:SRGTFShort Name:G11Effective Date:23/05/2025Previous Revision:8/7/2020

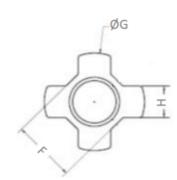
TenFlow™ Sucker Rod Guide

Product Description:

TenFlow™ is a Tenaris proprietary Beam Pumping injected sucker rod guide designed to maximize the Erodible Wear Volume (EWV) minimizing the flow turbulence

Dimensions:





Nominal size			Dimensions									
Tubing	Guide length	Rod Size	А		В		F		ØG		н	
TUDINg			in	mm	in	mm	in	mm	in	mm	in	mm
2 3/8"	5	3/4"			3.07	78	1.22	31	1.85	47	0.63	16
		7/8"		3.07	78	1.3	33	1.85	47	0.05	10	
		3/4"	5.50	140	2.68	68	1.22	31	2.30	58	0.75	
2 7/8"		7/8"					1.34	34				19
		1"					1.45	37				
2 3/8"	7	3/4"			5.00	127	1.22	31	1.85	47	0.63	16
		7/8"			5.00		1.3	33				10
		3/4"			4.52 115 4.41 112		1.22	31	2.30	58	0.75	
2 7/8"		7/8"				115	1.34	34				19
		1"	7.60	193			1.45	37				
3 1/2"		3/4"					1.22	31		68.6 0		
		7/8"				112	1.3	33	2.64		0.75	19
		1"					1.45	37				
		1 1/8"					1.57	40				
2 7/8"	9	3/4"				.87 149	1.22 31	31	2.30 58		0.75	
		7/8"	8.80	224	5.87		1.34	34		58		19
		1"					1.45	37				

Nominal size		Guide Total Volume		Erodible Wear Volume		Coupling Reference	Tubing Arc	
Tubing	Guide length	Rod Size	(cm3)	(in3)	(cm3)	(in3)		
2.2/0"		3/4"	105.00	6.4	15.90	1	3/4'' FS	159°
2 3/8"		7/8"	100.40	6.1	16.40	1	7/8'' SH	129
	5	3/4"	156.10	9.5	58.10	3.5	3/4'' FS	
2 7/8"		7/8"	149.50	9.1	40.70	2.5	7/8'' SH	168°
		1"	143.80	8.8	24.00	1.5	1" SH	
2 3/8"		3/4"	156.60	9.6	25.50	1.6	3/4'' FS	. 159°
		7/8"	146.50	8.9	25.50	1.6	7/8'' SH	100
		3/4"	229.60	14	87.70	5.4	3/4'' FS	
2 7/8"	7	7/8"	221.20	13.5	62.60	3.8	7/8'' SH	168°
		1"	211.90	12.9	37.00	2.3	1'' SH	
		3/4"	277.80	17	134.00	8.2	3/4'' FS	
3 1/2"		7/8"	268.30	16.4	107.00	6.5	7/8'' SH	132°
5 1/2		1"	260.50	15.9	55.70	3.4	1" FS	192
		1 1/8"	253.30	15.5	46.40	2.8	1 1/8'' SH	
		3/4"	284.80	17.4	111.60	6.8	3/4'' FS	
2 7/8"	9	7/8"	273.80	16.7	79.80	4.9	7/8'' SH	168°
		1"	262.30	16	47.60	2.9	1" FS	

Materials:

Typical values for Polyphenylene sulfide (PPS) 40% and 30% glass reinforced are displayed in the following table

Property	Test Standard PPS	PPS30(**)	PPS40(**)	
Density	ISO 1183	1.58 g/cm3	1.65 g/cm3	
Tensile Strength	ISO 527-2/1A	170 MPa	195 MPa	
Elongation at break	ISO 527-2/1A	1.9 %	1.9 %	
Tensile Modulus	ISO 527-2/1A	12000 MPa	14700 MPa	
Unnotched Charpy impact strength @23°C	ISO 179/1eU	34 kJ/m2	53 kJ/m2	
Unnotched Charpy impact strength @-40°C	ISO 179/1eU	34 kJ/m2	53 kJ/m2	
Notched Charpy impact strength @23°C	ISO 180/1eA	9 kJ/m2	10 kJ/m2	
Notched Charpy impact strength @-40°C	ISO 179/1eA	9 kJ/m2	10 kJ/m2	

Typical values for Polyphenylene polymer (PPA) unfilled (0%) and with a 33% glass reinforced are displayed in the following table

Property	Test Standard PPA	PPA00(**)	PPA33(**)
Density	ISO 1183	1.1 g/cm3	1.44 g/cm3
Tensile Strength	ASTM D638	55 MPa	193 MPa
Elongation at break	ASTM D638	10 %	2.1 %
Tensile Modulus	ASTM D638	1793 MPa	13100 MPa

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

Rod guide properties:

Property	PPS30	PPS40	PPA00	PPA33
Color	Grey	White	Natural	Black

Maximum Service Temperature*	180 °C	180 °C	120 °C	120 °C
Dynamic Friction Coeficient	0.28	0.3	0.22	0.25
Fiberglass Content	30 %	40 %	0 %	33 %

*Maximum temperature limitation is dependent on well condition. Please contact Tenaris's Technical Sales Representative for further assistance

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