

STABILIZERS



VULCAN
INDUSTRIAL
ENGG. CO. LTD
AN ISO 9001 COMPANY

WHY USE STABILIZERS ?

Stabilizers are used to:

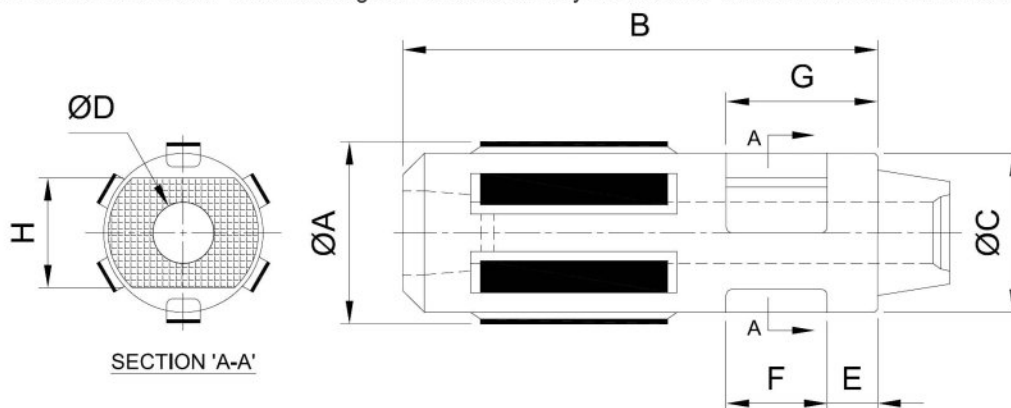
- Control hole deviation, while minimizing crooked holes
- "Pack the formation"
- Control vibration, increasing bit and drill pipe life
- Pack the wall of the hole to prevent caving, minimizes particles in the hole bottom, reducing re-drill time
- Help back drill steel out of collapsed holes
- Increase penetration rates and reduces repairs to the rotary head gear box , resulting in greater drill availability

VULCAN OFFERINGS

Vulcan's stabilizers are machined from high-quality alloy steel to ensure a proper balance in mechanical properties is achieved between hardness, strength, toughness, and fatigue resistance. We offer both straight ribbed and roller stabilizers that can be threaded to suit any type of drill string required by our customers.

STRAIGHT RIBBED STABILIZERS:

Vulcan's standard feature offers an overlay of wear-resistant materials on the ribs, but based on customer needs, we can also offer either tungsten carbide buttons or crushed tungsten carbide overlay as a choice of wear resistant rib surfacing options.



A	B	C	D	E	F	G	H	I
Nominal Diameter	S/S Length	Body Diameter	Bore Diameter	Shoulder to Wrench Flat	Width of Wrench Flat	Shoulder to End of Wrench Flat	Dimensions of Across Flat	Approximate Weight
(Inch)	(Inch)	(Inch)	(Inch)	(Inch)	(Inch)	(Inch)	(Inch)	(Lbs)
6.750	43.312	5.750	2.812	1.000	2.000	7.000	4.500	363
7.875	48.000	6.750	2.812	1.500	2.750	8.468	5.625	445
9.000	48.000	8.000	3.000	1.500	2.750	8.250	6.875	616
9.875	48.000	8.000	3.000	1.500	2.750	8.250	6.875	704
11.000	60.000	10.000	3.750	1.500	2.750	8.250	8.000	1,067
12.250	60.000	11.250	4.750	1.500	3.500	9.750	9.000	1,650
13.750	60.000	12.875	5.437	1.578	3.937	11.000	10.500	1,900
15.000	60.000	12.875	5.437	1.578	3.937	11.000	10.500	2,310

* Spiral Ribbed Stabilizer offered on request

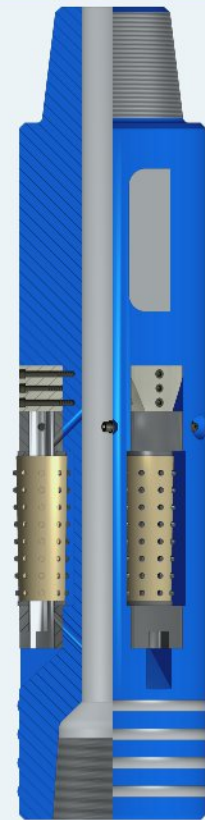
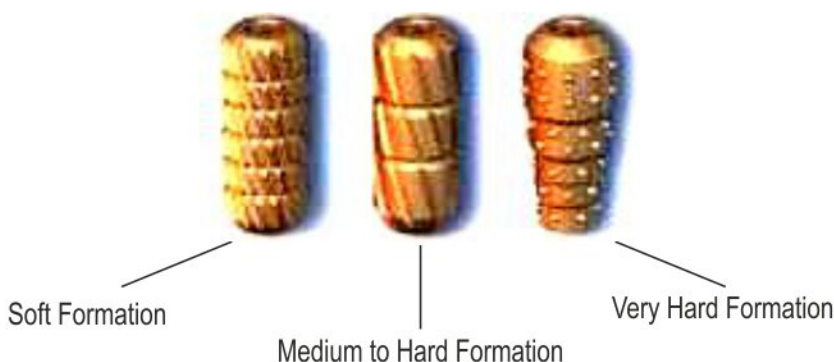
ROLLER STABILIZERS:

The roller stabilizer is the most efficient stabilizer with true-rolling, pressed in tungsten carbide centralizers, that are in constant rolling contact with the drilled hole wall. This not only eliminates the gauging and wearing of the drill string, but also maintains its component's concentricity. Roller-stabilizers provide adequate stabilization without imposing excessive torque.

Vulcan offers roller stabilizers from 3 rollers up to 6 rollers in two levels to be used in severe conditions where increased stabilization or minimal hole deviation is required. They provide increased torsional strength and a larger air circulation area with the use of rollers and bearings of the largest diameter that is practical within a given hole size.

Hole Size	S/S Length	Body Diameter	Weight
(Inch)	(Inch)	(Inch)	(Lbs)
6.250	26.500	5.125	130
6.750	26.500	5.625	165
7.875	26.500	6.250 - 7.000	220
9.000	28.500	7.625	290
9.875	30.750	8.625	400
10.625	30.750	8.625 - 9.250	160
11.000	30.750	9.250 - 9.625	510
12.250	30.750	10.750	650
13.750	41.000	12.250	1,000
15.000	41.000	13.375 - 14.375	1,300

According to different applications and compressive strength of the formations, the number of rollers and type have to be determined.



VULCAN'S ADVANTAGES:

- 1 Less maintenance required, and worn rollers can be either replaced or repaired.
- 2 Ribs of the stabilizers are ground to ensure concentricity.
- 3 Easy air passage for long life of roller bearings.
- 4 Hard banding can be provided for extra wear resistance.
- 5 Anti-galling treatments are given to threads to ensure longer life.
- 6 Overcomes drill stem misalignment to a certain extent.
- 7 Efficient and reliable delivery time.
- 8 40 years of experience in manufacturing and understanding of drilling requirements.
- 9 Adherence to the highest global quality standards.
 - ISO 9001:2008 certifications



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