



# STEELFABS OFFSHORE DRILLING LTD.

Largest Indian Cementing Services & Primary Cementing Equipments Provider



## Non Weld Bow Centralizers (S 10)

Steelfabs Non Weld Bow Centralizers are high quality, developed to exceed API 10 D specifications for use in most demanding conditions. The Non Weld Bow Centralizers combine the highest Non Weld Centralizer restoring force with the lowest starting force. Premium quality Bows made of special alloy steel with uniform hardness provide optimum performance. The bows with extended profile prevent them from hitting against casing collars. The bows are available in a range to accommodate any well profile. Quality steel and non weld design ensure extra strong grip while integral hinges folded on the inside are connected by high strength locking pin for maximum structural robustness.



Steelfabs non weld bow centralizers are used to position the casing in the centre of the wellbore in vertical, deviated as well as horizontal wells. The non weld bow centralizers reduce the effect of channeling by improving cement flow. This results in a more uniform thickness between the casing and the wellbore. By reducing the pipe movement before the cement sets in, the centralizers are able to minimize gas channeling. The centralizers provide a semi rigid casing standoff. Non weld design features self locking of lips for holding bows to end collars.

Bows of special alloy steel are hot formed and tempered for optimum strength, resilience and uniformity. They are then flattened as per specifications for consistent performance. High restoring force combined with low starting force is achieved with all 5 bow heights. Their installation on the casing pipe is very convenient.

It requires only the placement of the two assembled halves on the pipe and inserting the pin in the end collar hinge. The centralizer when

unassembled makes a compact package, greatly reducing shipping cost. Assembly at site is conveniently done, hydraulically or pneumatically.

The non weld bow centralizers are available in sizes 4½" to 24".



**Non Weld Bow Centralizers (S 10)**

Casing Size in.	Bow Type	Max. O.D. Size		Casing Size in.	Bow Type	Max. O.D. Size		Casing Size in.	Bow Type	Max. O.D. Size	
		in.	mm.			in.	mm.			in.	mm.
4 1/2	BST-0	6.579	167.1	7 5/8	BST-0	9.760	247.9	13 3/8	BST-0	15.567	395.4
	BST-1	6.972	177.1		BST-1	10.154	257.9		BST-1	15.961	405.4
	BST-2	7.524	191.1		BST-2	10.705	271.9		BST-2	16.512	419.4
	BST-3	9.256	235.1		BST-3	12.437	315.9		BST-3	18.244	463.4
	BST-4	10.752	273.1		BST-4	13.933	353.9		BST-4	19.740	501.4
5	BST-0	7.098	180.3	8 5/8	BST-0	10.756	273.2	16	BST-0	18.193	462.1
	BST-1	7.492	190.3		BST-1	11.150	283.2		BST-1	18.587	472.1
	BST-2	8.043	204.3		BST-2	11.701	297.2		BST-2	19.138	486.1
	BST-3	9.776	248.3		BST-3	13.433	341.2		BST-3	20.870	530.1
	BST-4	11.272	286.3		BST-4	14.929	379.2		BST-4	22.366	568.1
5 1/2	BST-0	7.614	193.4	9 5/8	BST-0	11.748	298.4	18 5/8	BST-0	20.854	529.7
	BST-1	8.008	203.4		BST-1	12.142	308.4		BST-1	21.248	539.7
	BST-2	8.559	217.4		BST-2	12.693	322.4		BST-2	21.799	553.7
	BST-3	10.291	261.4		BST-3	14.425	366.4		BST-3	23.531	597.7
	BST-4	11.787	299.4		BST-4	15.921	404.4		BST-4	25.028	635.7
6 5/8	BST-0	8.728	221.7	10 3/4	BST-0	12.902	327.7	20	BST-0	22.248	565.7
	BST-1	9.122	231.7		BST-1	13.295	337.7		BST-1	22.642	575.1
	BST-2	9.673	245.7		BST-2	13.846	351.7		BST-2	23.193	589.1
	BST-3	11.406	289.7		BST-3	15.579	395.7		BST-3	24.925	633.1
	BST-4	12.902	327.7		BST-4	17.075	433.7		BST-4	26.421	671.1
7	BST-0	9.126	231.8	11 3/4	BST-0	13.898	353.0	24	BST-0	26.298	667.9
	BST-1	9.520	241.8		BST-1	14.291	363.0		BST-1	26.692	677.9
	BST-2	10.071	255.8		BST-2	14.843	377.0		BST-2	27.243	691.9
	BST-3	11.803	299.8		BST-3	16.575	421.0		BST-3	29.015	736.9
	BST-4	13.299	337.8		BST-4	18.071	459.0		BST-4	30.511	774.9

Casing Size	Bow Type	Preferred Hole Size Combination	Casing Size	Bow Type	Preferred Hole Size Combination	Casing Size	Bow Type	Preferred Hole size Combination
in.		in.	in.		in.	in.		in.
4½	BST-0	6, 6⅞, 6¼	7⅝	BST-0	---	13¾	BST-0	---
	BST-1	---		BST-1	9½		BST-1	14¾
	BST-2	---		BST-2	---		BST-2	---
	BST-3	7⅞, 8½		BST-3	---		BST-3	15½, 16
	BST-4	---		BST-4	---		BST-4	17½
5	BST-0	6¼	8⅝	BST-0	9¾	16	BST-0	---
	BST-1	6¾		BST-1	---		BST-1	17½
	BST-2	---		BST-2	---		BST-2	18½
	BST-3	8½		BST-3	12¼		BST-3	18½
	BST-4	12¼		BST-4	---		BST-4	20, 22
5½	BST-0	6⅝	9⅝	BST-0	---	18⅝	BST-0	---
	BST-1	---		BST-1	11¾		BST-1	---
	BST-2	7⅞		BST-2	11¾		BST-2	---
	BST-3	8¾, 3½, 8¾		BST-3	11¾, 12¼, 12½, 12⅝		BST-3	22
	BST-4	---		BST-4	---		BST-4	24
6⅝	BST-0	7⅞	10¾	BST-0	---	20	BST-0	---
	BST-1	8½, 8⅝		BST-1	12¼		BST-1	---
	BST-2	8⅝, 8¾		BST-2	12¼, 12½, 12⅝, 13½		BST-2	---
	BST-3	9⅞		BST-3	---		BST-3	---
	BST-4	12¼		BST-4	14¾		BST-4	24
7	BST-0	8¾, 8½	11¾	BST-0	---		BST-0	---
	BST-1	8½, 8⅝, 8¾		BST-1	---		BST-1	---
	BST-2	8½, 8⅝, 8¾		BST-2	---		BST-2	---
	BST-3	9⅞		BST-3	---		BST-3	---

Force in lbs

API

Casing Size in  
inches

Non Weld Centralizer

Starting Force (max.)

Restoring Force (min.)

4 1/2

464

464

5

520

520

5 1/2

620

620

6 5/8

960

960

7

1040

1040

7 5/8

1056

1056

8 5/8

1440

1440

9 5/8

1600

1600

10 3/4

2040

1020

11 3/4

2160

1080

13 3/8

2440

1220

16

2600

1300

18 5/8

3500

1750

20

3760

1880



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## CERTIFICATION

Our company is certified as per API and ISO standards:

### API CERTIFICATE



### ISO 9001 CERTIFICATE

