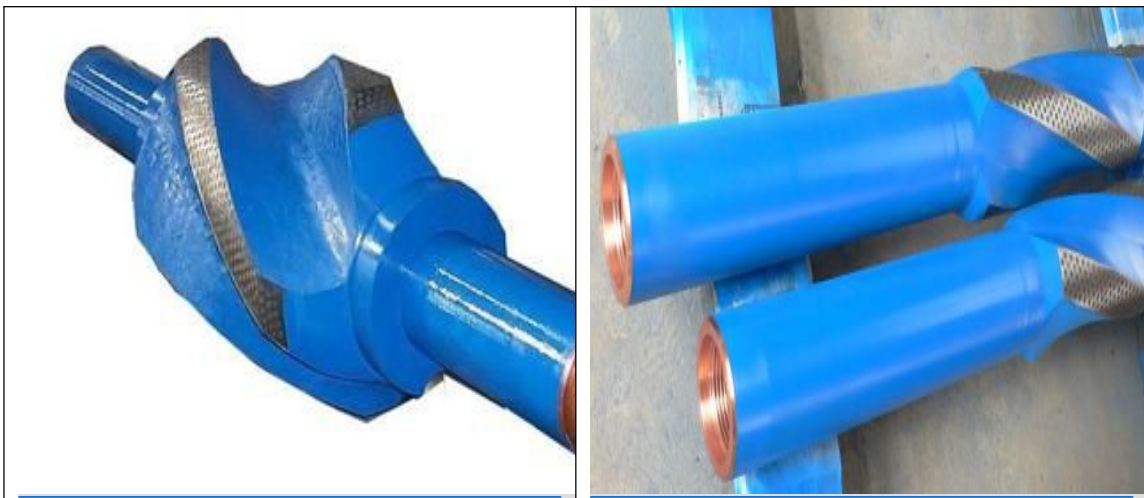


## Stabilizer

Ship stabilizers are fins or rotors mounted beneath the waterline and emerging laterally from the hull to reduce a ship's roll because of wind or waves. Active fins are controlled by a gyroscopic control system. When the gyroscope senses the ship roll, it changes the fins' angle of attack to exert force to counteract the roll. Fixed fins and bilge keels do not move; they reduce roll by hydrodynamic drag exerted when the ship rolls. Stabilizers are mostly used on ocean-going (blue water) ships.

### General Features



WDQ series Stabilizers are wide variety of tools used for drilling operation. Suitable for onshore or offshore drilling operations.

### Details

The WDQ series stabilizers were developed to provide the market with more reliable technology and more hoisting performance. All drilling stabilizers are integral style, also can be highly customized as per customer's requirements. Included but not limited by the advantages mentioned, WDQ series stabilizers might be your best choice.

### General Features

- Manufactured according to API SPEC 7
- Suitable for cold area and desert environment
- Suitable for onshore or offshore rigs
- Wide range of selection for different operations

## Main aramaters

Size: 3-1/8" – 11" (79.4 mm – 279.4 mm)

### Parameters:

Straight Blade Stabilizer

Bit O. D. (in)	O. D. (mm)	End O. D. (mm)	I. D. (mm)	Length (mm)				Connection			
				Short Type		Long Type		Drill String		Near Bit	
				Near Bit	Drill String	Near Bit	Drill String	Top	Down	Top	Down
6	152.4	121	51	800	1000	1200	1400	NC	NC	NC38	3-1/2 REG
6-1/4	158.7			~900	~1,100	~1,400	~1,600	38	38		
6-1/2	165.1										
7-1/2	190.5	159	57		1000	1600	1800	NC	NC	NC46	4-1/2 REG
7-7/8	200	165	71					46	46		
8-3/8	212.7	178			1000	1600	1,800~	NC46			
8-1/2	215.9					~1,200	~1,800	2000	NC50		4-1/2 REG
8-3/4	222.2										
9-1/2	241.3	178	71	800	1000	1600		NC	NC50	NC50	6-5/8 REG
9-5/8	244.5	197		~1,000	~1,200	~1,800		50			
9-7/8	250.8										
12-1/4	311.2	203	76	1000	1200	1800		NC56			6-5/8
		229		~1,200	1500	2000		6-5/8 REG			REG
17-1/2	444.5			1200	1200	2000	2,000~	NC61			
				~1,300	~1,300	~2,200	2200	7-5/8 REG			

### spiral blade stabilizer

Bit Size (in)	Working O. D. (mm)	End O. D. of Body (mm)	I. D. (mm)	Length (mm)	Thread Code on Both Ends					
					String Type		Near Bit Type			
					Top	Down	Top	Down		
6	152.4	121	51	1,200	NC38		3-1/2 REG			
6-1/4	158.7									
6-1/2	165.1									
7-1/2	190.5	159	57	1,600	NC46		4-1/2 REG			
7-7/8	200									
8-3/8	212.7				159	1,600			NC46	
		165		1,800	NC50					
8-1/2	215.2	159	71							
		165								
8-3/4	222.2	178								
9-1/2	241.3	178	76	1,600				6-5/8 REG		
9-5/8	244.5	197		1,800	NC50	NC50	NC50			
9-7/8	250.8									
12-1/4	311.2	203	76	1,800	NC56	NC56	NC56	6-5/8 REG		
		229			6-5/8 REG	6-5/8 REG	6-5/8 REG			
16	406	229		2,000	NC61	NC61	NC61		NC61	
		241.3		2,200	7-5/8 REG	7-5/8 REG	7-5/8 REG	7-5/8 REG		

Replaceable Sleeve Stabilizer

Bit Dia. (in)	Drill Collar Dia. (in)	Sleeve		Stabilizer Body						Thread Code Ends		
		Length (mm)	Work O. D. (mm)	Upset End Dia. (mm)	Upset End Length (mm)	Fishing Neck Length (mm)	I. D. (mm)	Make- up Torque (KN. m)	Over length (mm)		Drill String	
									Near Bit Type	Drill String Type	Top	Down
8-1/2	6-1/2	480	214	190	200	600	71	6.95~7.25	1800~1,900	1800~1,900	4-1/2 IF	4-1/2 IF
8-1/4		470	210									
8		472	203									
7-3/4		455	197									
12-1/4	8	555	310	238	200	600	19.7~11	1800~2,000	1800~2,000	6-5/8 REG	6-5/8 REG	
12		550	305									
11-1/2		540	292									
11		530	279									
17-1/2	9	682	444	279	200	600	76	13.85~16.55	1800~2,000	1800~2,000	7-5/8 REG	7-5/8 REG
17		676	432									
16-1/2		670	420									
16		644	407									
22												
24												
26												

Non-Rotating Stabilizer

Hole Size (in)	Stabilizer Sleeve			Stabilizer Body			Overall Length (mm)
	Length (mm)	O. D.	Blade Qty.	I. D. (mm)	Fishing O. D. (mm)	Thread Type	
13-3/8	500	313	4	71	165	4-1/2 IF	2,000
10-3/4	500	255	4	71	165	4-1/2 IF	2,000
9-5/8	500	220	4	71	165	4-1/2 IF	2,000
7	380	157	4	44	127	4-1/2 IF	1,600
12-1/4	523	310	4	76	215	6-1/8 REG	2,010
16	543	405	4	76	241	7-5/8 REG	2,210
17	543	430	4	76	241	7-5/8 REG	2,210
22	635	558	4	76	241	7-5/8 REG	2,210
28	715	711	5	76	241	7-5/8 REG	2,210

Float Valve Stabilizer

Stabilizer Body O. D. (mm)	Stabilizer		Float Valve Assembly O. D. (mm)	Float Valve Assembly length (mm)
	O. D. (mm)	Thread		
228	241	7-5/8 REG	121	298.4
228	241	7-5/8 REG	121	298.4

228	241	7-5/8 REG	121	298.4
203	209.6	6-5/8 REG	121	298.4
178		4-1/2 IF	98	247.6
178	165	4-1/2 REG	88	211.14
127	121	3-1/2 REG	61	165.1

#### Spherical Stabilizer

working O.D. (in)	Body O.D. on Both Ends (mm)	I.D. (mm)	Stabilizer Length (mm)	Thread on Both Stabilizer Ends			
				String Type		Near Bit Type	
				Top	Down	Top	Down
6~6-1/2	121	51	785	3-1/2IF	3-1/2IF	3-1/2IF	3-1/2REG
7~7-7/8	159	57	850	4-1/2IF	4-1/2IF	4-1/2IF	4-1/2REG
8~8-1/2	165	71	850	4-1/2IF	4-1/2IF	4-1/2IF	4-1/2REG
9~9-1/4	197	71	870	4-1/2IF	4-1/2IF	4-1/2IF	4-1/2REG
12~12-1/4	203	76	940	6-5/8REG	6-5/8REG	6-5/8REG	6-5/8REG

#### Variable Diameter Stabilizer

Body O.D. (mm)	I.D. (mm)	Head O.D. (mm)	Head Nos.	Overall Length (mm)	Box Thread	Pin Thread	O.D. Varied (mm)	Min. Pressure Stretch Out (MPa)	Max. Working Pressure (MPa)	Max. Differential Pre (MPa)
201	55	80	15	1,350	NC50	NC50	211~213	0.1	20	40
204	55	80	15	1,350	NC50	NC46	214~215	0.1	20	40