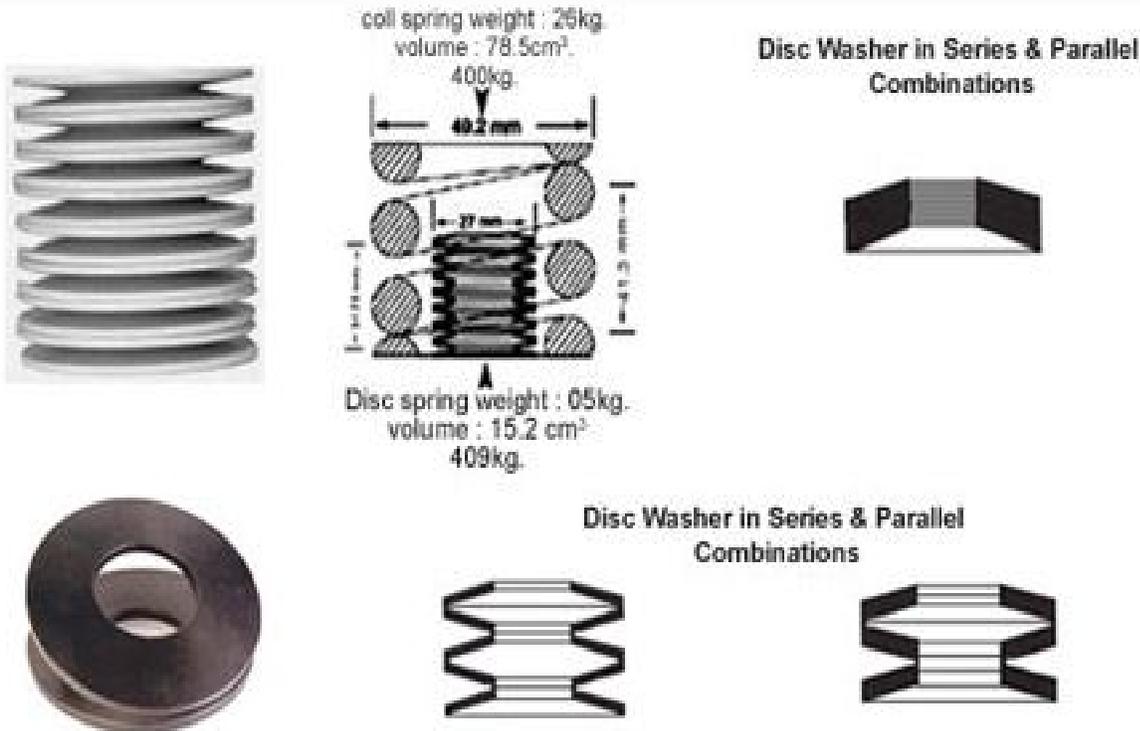


## Disc Washer

Disc Washers are loaded in the axial direction. Disc Washers offer a well-developed solution to many engineering problems. Through a unique combination of high force in a small space, Disc Washers can be used as single disc or arranged in stacks. A spring stack can consist of either single spring or parallel spring sets. Disc Washers are available with or without contact flats. Disc Washers and Belleville Washers are manufactured to **DIN 2093 AND din 6796**.



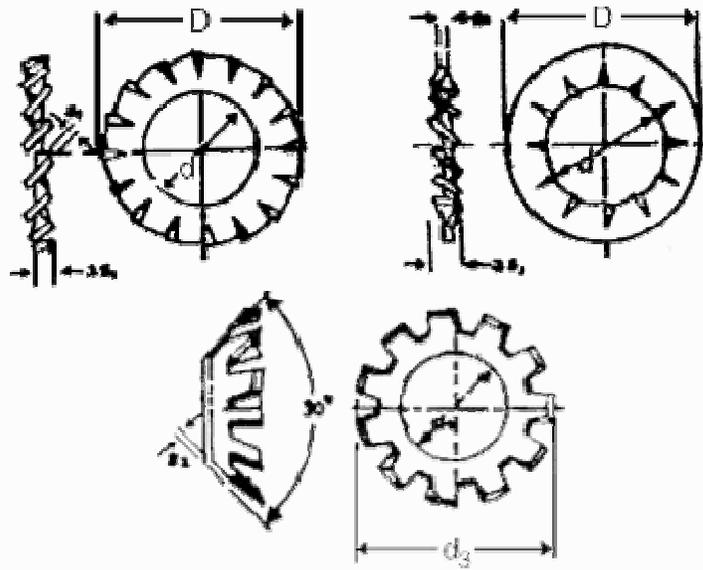
### Advantages of Disc Washer

1. No Deformation or Fatigue under normal loads.
2. High Energy Storage Capacity.
3. Long Service Life.
4. Stock keeping is minimized as the individual spring sizes can be combined universally.
5. Space Saving.
6. Largely Self-damping, giving good shock absorption and energy dissipation.
7. Efficient use of space and high spring force with small deflections.
8. Adaptable to stacking in numerous configurations.
9. Combination use as a modular spring element. .
10. Low Maintenance cost
11. Greater Security

### Disc Washer Stack Compared to Helical Spring.

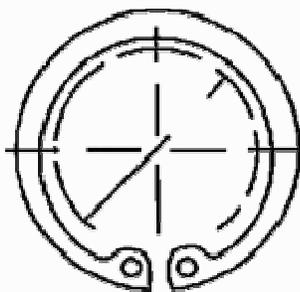
Note that the same load is achieved at substantial reduction in space. Disc stacks may be designed for extremely high loads where coil springs are not feasible at all.

## Fan Lock Disc Washer

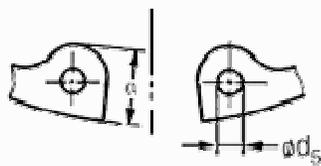
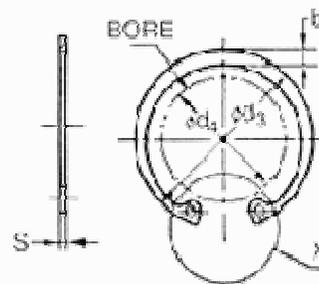


## Internal Circlips

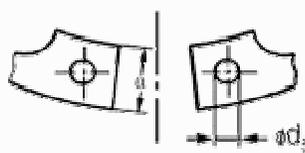
Internal Circlips (Light Series)



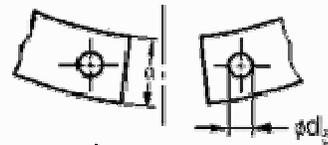
Internal Circlips



$d_1 \leq 300\text{mm}$



$d_1^* \leq 25\text{mm}$

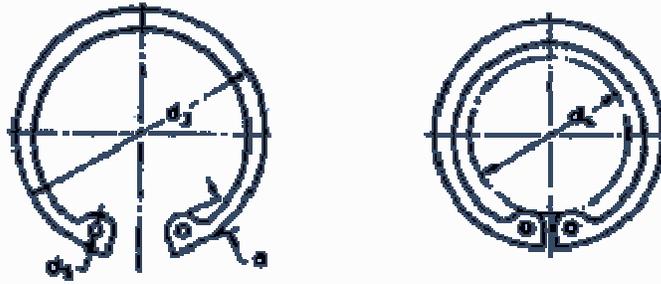


$d_1^* \leq 170\text{mm}$

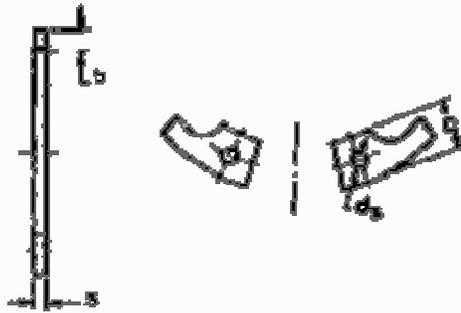
DETAILS AT X

All Dimensions in Millimeters

## Internal Circlips (Heavy Series)



Uncompressed	Compressed for Assembly
--------------	-------------------------



	Alternate Shape of Lug for For $d_1=40$ and above
--	---

## Serrated Washer

Shiv Sagar Serrated Washers available in mm and inches, which have internal teeth, are available in Stainless Steel, Plated Steel, or Phosphor Bronze as standard. These "shake-proof" serrated washers fitted internally to the equipment, before the application of a locknut act as an anti-vibration device to prevent the cable gland and locknut arrangement from loosening in service. These are of particular importance in situations where vibrating heavy machinery, such as mud shakers, pumps and drilling equipment is operating aboard mobile or fixed onshore and offshore drilling units.

Available in Grade 316 L SS

use for electrical installation and commissioning projects

## Stainless steel 316 L



### Size

- SW4=16
- SW4=20
- SW4=25
- SW4=32
- SW4=40
- SW4=50
- SW4=63
- SW4=70
- SW4=90
- SW4=100
- SW4=105
- SW4=115

## Safety Washer

