

Proudly distributed by Hobson Engineering

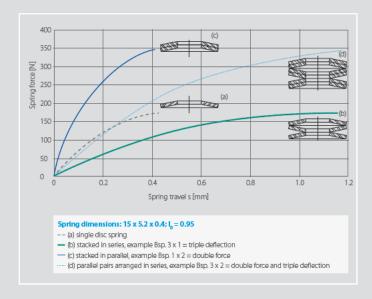
What to look for when selecting disc springs

What should one look for when selecting disc springs?

The price of incorrect selection with warranty claims and loss of reputation is very often more than the initial cost of a quality disc spring in the first place. In order to help you, we think the following are the most important criteria:

- ① Does the manufactured version comply with the quality requirements? One should pay attention to using a quality which complies with the requirements. We would be glad to advise you on the correct selection.
- 2 Is the disc spring preset? Some suppliers in the low-price segment try to save this step. As a result, the disc spring will take a set after the first load.
- 3 Was a suitable material selected? In case of high temperatures or hostile environment, special materials need to be specified (see page 33).
- 4 Was a suitable surface treatment selected for corrosion protection (see page 34)?

Should individual consulting and design be carried out? We would be glad to support you with our experience and knowThe conical shape of the disc spring allows single springs to be combined in different ways. As a result, the characteristic of a spring combination can be varied in almost any way desired. In principle the following possibilies exist. In spring columns with single springs stacked in series, the spring deflections add up with constant load (b). In spring columns with springs stacked in parallel, the forces add up at the same deflection (c). In spring columns with combinations of serial and parallel stacking, various characteristic curves can be realized (d).



If disc springs of different thickness are stacked in a suitable way, then even progressive characteristic curves can be realized. For this, either several disc springs of different material thickness or identical disc springs with intermediate rings of different thickness or different layering types are used.

Due to this flexibility in the characteristic curve design, the disc spring can be used in a very wide spectrum.

Do you require assistance in specifying the correct disc spring either standard or special to your exact requirements?

Our engineering team will be pleased to help you in designing the most suitable disc spring solution according to your specifications.

The earlier we are involved in the development process, the better we can support you with our expertise.

CUSHION **SECURE** MOVE

