

**Features/Applications**

The Metacone™ Spring is an easily fitted and compact suspension unit in which the rubber is loaded in combined shear and compression.

Optimum load-deflection properties, i.e. high load capacity and large static deflections can be provided within acceptable space envelope limitations.

The range illustrated caters for static vertical loads and deflections up to 50kN and 40mm respectively.

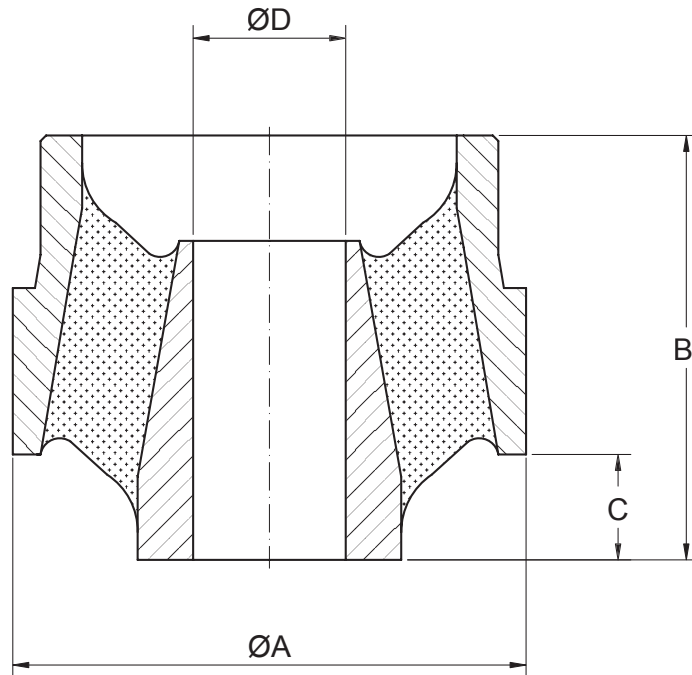
These are typical requirements for many primary suspension systems.

These springs may also be considered for secondary suspensions and power unit applications.

Although Metacone™ springs generally provide the same stiffness rates in the principal horizontal modes, alternative designs with dissimilar horizontal stiffness rates could be supplied.

## Metacone™ Springs

20 - 40 mm vertical deflection



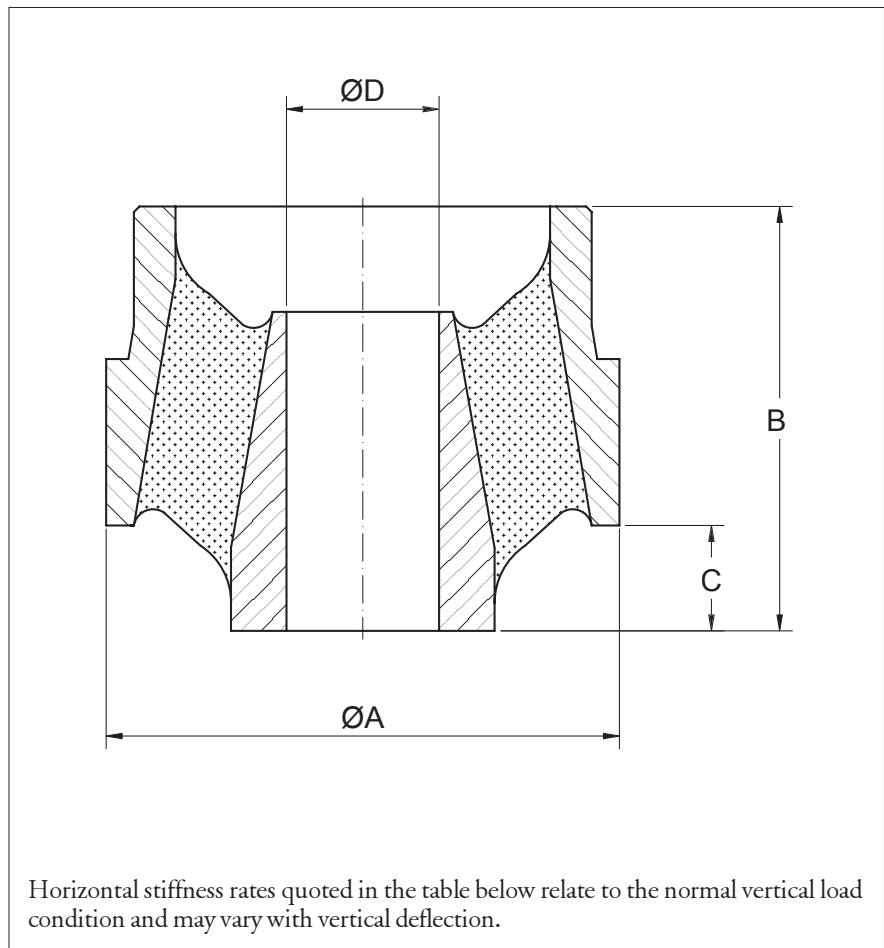
Horizontal stiffness rates quoted in the table below relate to the normal vertical load condition and may vary with vertical deflection.

### Metacone™ Springs

*Parts listed are a selection of a wider range, details of which are available on request.*

Prod. No.		17-2083	17-1888	17-2105
Vertical load	kN	8.5	17	24.8
Vertical deflection	mm	20	20	20
Vertical stiffness	MN/m	0.42	0.84	1.21
Lateral stiffness	MN/m	3.4	2.3	4
Longitudinal stiffness	MN/m	3.4	2.3	4
Dimension A	mm	185	185	150
Dimension B	mm	153	153	143
Dimension C	mm	38	38	41
Dimension D	mm	55	55	-
Unit mass	kg	7.3	10.5	5.25

**Metacone™ Springs**  
21 - 40 mm vertical deflection



**Metacone™ Springs**

*Parts listed are a selection of a wider range, details of which are available on request.*

Prod. No.		17-1053	17-2047	17-1817	17-1836
Vertical load	kN	14	31	51	34
Vertical deflection	mm	23	32	34	38
Vertical stiffness	MN/m	0.6	3.6	1.5	0.9
Lateral stiffness	MN/m	0.8	4	*	9.5
Longitudinal stiffness	MN/m	0.8	4	*	9.5
Dimension A	mm	207	260	293	275
Dimension B	mm	118	319	282	243
Dimension C	mm	54	103	132	103
Dimension D	mm	79	-	90	-
Unit mass	kg	7.2	24.5	38.5	30

\* Part no: 17/1817 is not recommended for sustaining radial forces.



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