

RIMOSTAT®-Torque Limiters RSHD

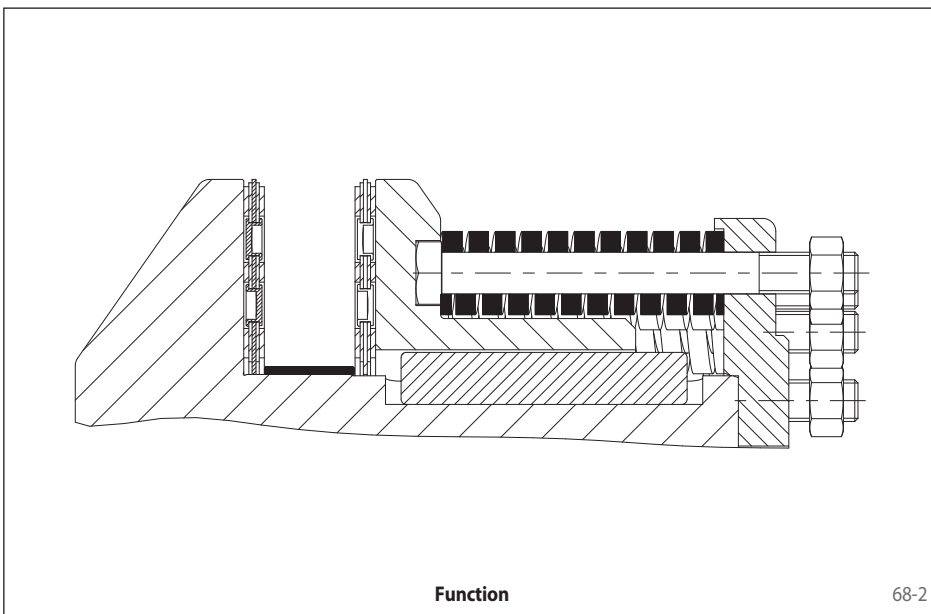
for heavy-duty applications



68-1

Features

- Better stability of slipping torque than Belleville spring torque limiters over duration of the operating period
- Adjustment of slipping torque setting according to the number of active springs – not through modification of spring pressure
- Superb wear-behaviour during high energy consumption
- High temperature resistant
- Nickel free friction pads

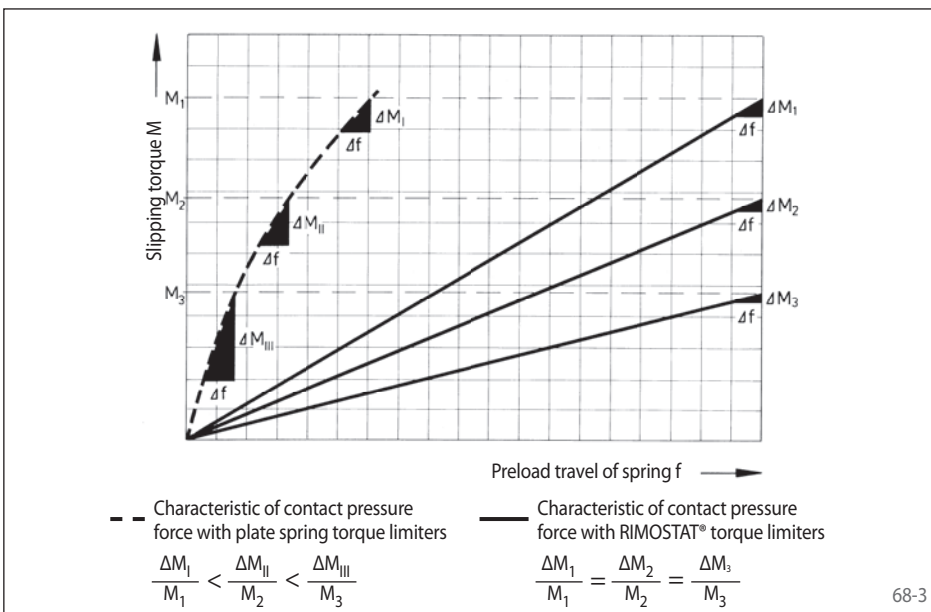


Function

68-2

The RIMOSTAT® Principle

The contact pressure on the friction surfaces is produced by long coil springs. Because of the RIMOSTAT® Torque Limiter's linear, flat-angle characteristic of the pressure force, practically no reduction of the slipping torque occurs even when friction linings are subjected to wear. As the diagram 68-3 shows, compared with Belleville spring torque limiters, assuming a friction wear of Δf the reduction of the slipping torque ΔM is negligible.

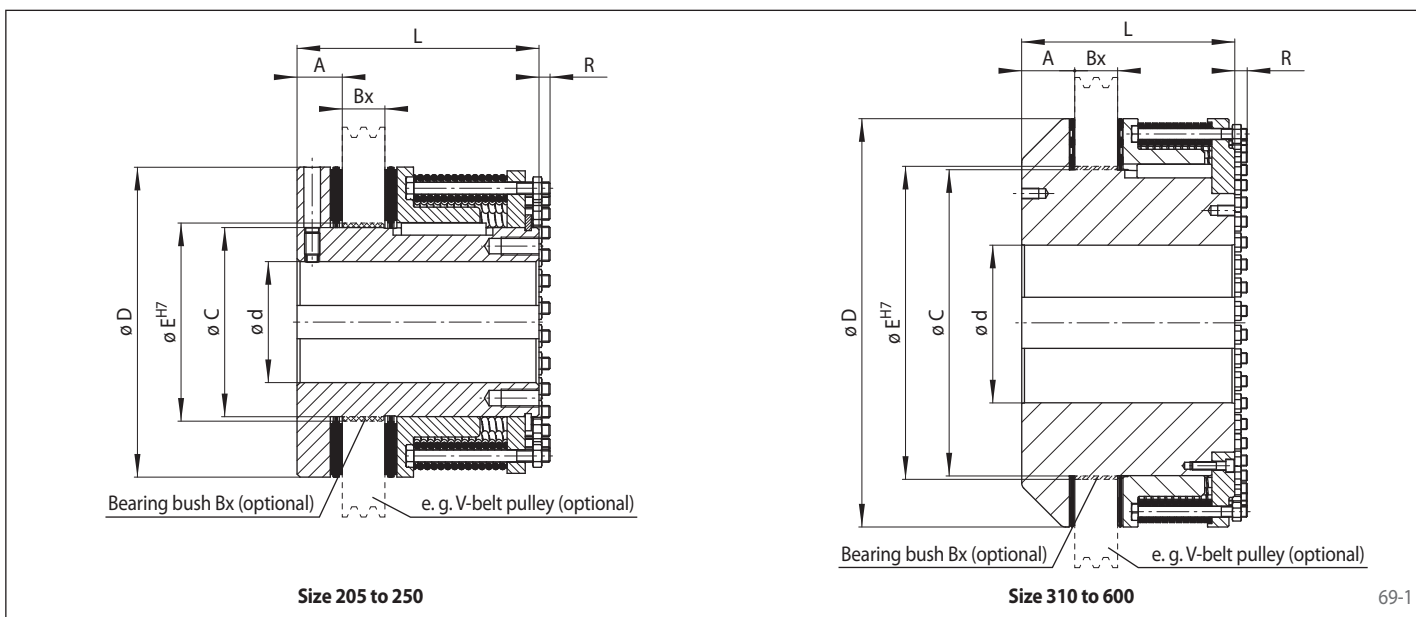


68-3

Function

- When the preset slipping torque has been reached the built-in component (e. g. v-belt pulley) slips
- During the slipping process, input and output rotate relative to each other and the preset slipping torque continues to be transmitted
- Inherent in the slipping process is a high energy consumption
- Re-engagement is not necessary
- No wear adjustment required due to coil springs

for heavy-duty applications



Technical Data and Dimensions

Size	Slipping torque Nm	Max. speed ¹⁾ min ⁻¹	Bore ²⁾ d ^{H7}		A mm	Bx ³⁾ mm	C ³⁾ mm	D mm	E ³⁾ mm	L mm	R mm
			min. mm	max. mm							
RSHD 205	300 - 3000	2700	50	90	29,9	28,2	125	205	131	160	7,3
RSHD 250	1200 - 6000	2100	55	115	36,9	35,2	160	250	166	185	18,4
RSHD 310	4000 - 10000	1800	80	100	72,7	34,9	160	310	166	275	26,6
RSHD 400	8000 - 22000	1500	130	140	77,9	63,0	250	400	256	313	18,3
RSHD 600	20000 - 60000	1000	150	300	77,9	63,0	450	600	460	313	18,3

¹⁾ The max. speed relates to the dimensional stability of the Torque Limiter.

²⁾ Further bores as well as internal spline available on request.

³⁾ If the part to be coupled is used without bearing bush, the bore should be made to dimension C (tolerance F8).

Keyway as per DIN 6885, page 1 · Tolerance of keyway width P9. Further sizes available on request.

Supply

The Torque Limiters are full complement of springs, without slipping torque setting and without bearing bush. A factory slipping torque preset is only possible with a mounted output element e.g. V-belt pulley.

Types (optional)

- Organic friction linings
- Internal spline

Example for ordering

Type RSHD 400 with standard bore 130 mm and preset slipping torque 8000 Nm:

- RSHD 400-130-8000

Accessories

Torque Limiter RSHD is available with the following accessories:

- Bearing bush Bx
- V-belt pulley



RIMOSTAT®-Torque Limiters RSHD for heavy-duty applications with V-belt pulley

Morskate®



Any questions? Please contact us.

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