



## PROLOAD-DYN LiveLoading for agitators

New generation LiveLoading with encapsulated disc spring system and defined compression length for slow-moving shafts.

### Characteristics

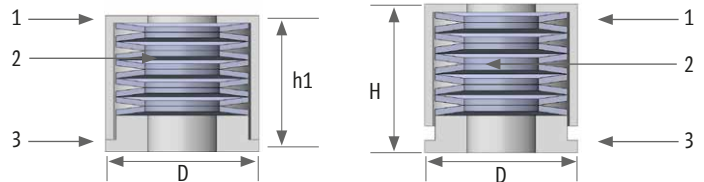
- One of the main advantages of the PROLOAD-DYN LiveLoading system is that the disc springs slide on a smooth surface and cannot catch on thread turns
- The spring packs are protected in a housing against environmental influences and damage.
- The spring stack is adjusted for optimal spring force and spring deflection by a spacer sleeve and a defined maintenance gap.
- A torque wrench is not required for adjustment.
- A reduction in compression due to packing consolidation or volume loss through abrasion is indicated by a larger maintenance gap. In this case, simply tighten the gland nut to restore the desired compression.

### Main application

- Slow-running units
- Agitators
- Mixers

### Materials

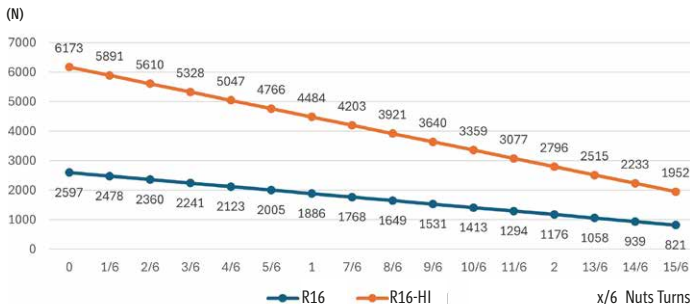
Pos.	Part	Material
1	Springcup	1.4305
2	Spring	1.8159 galCd
3	Springcover	1.4305



	Unclamped height (H)	Height of closed maintenance gap (h1)	Diameter (D)	Setting force		Tightening torque	
				Min	Max	Min	Max
	(mm)	(mm)	(mm)	(N)	(N)	(Nm)	(Nm)
R10	35	32	25	417	883	0.9	1.8
R10HI	35	32	25	726	2560	1.5	5.1
R12	43	37	30	487	1359	1.2	3.3
R12HI	43	37	30	1050	2926	2.5	6.9
R12XT	42	37	30	2047	5705	4.9	13.5
R14	47	40.5	36	821	2597	2.3	7.2
R14HI	47	40.5	36	1952	6173	5.4	17.1
R16	47	40.5	36	821	2597	2.5	7.8
R16HI	47	40.5	36	1952	6173	5.9	18.6
R20	51	44	45	1573	5701	6.1	22.2
R20HI	51	44	45	2475	8965	9.6	34.9

	Unclamped height (H)	Height of closed maintenance gap (h1)	Diameter (D)	Setting force		Tightening torque	
				Min	Max	Min	Max
	(inch)	(inch)	(inch)	(lbf)	(lbf)	(ftlb)	(ftlb)
R3/8	1.38	1.26	0.98	70	199	0.4	1.3
R3/8HI	1.38	1.26	0.98	147	576	1.0	3.8
R7/16	1.69	1.46	1.18	110	306	0.8	2.3
R7/16HI	1.69	1.46	1.18	236	658	1.8	5.0
R1/2	1.77	1.50	1.34	87	306	0.7	2.6
R1/2HI	1.77	1.50	1.34	182	639	1.5	5.4
R9/16	1.85	1.59	1.42	185	584	1.7	5.5
R9/16HI	1.85	1.59	1.42	439	1388	4.1	13.0
R5/8	1.85	1.59	1.42	185	584	1.9	6.0
R5/8HI	1.85	1.59	1.42	439	1388	4.5	14.2
R3/4	2.01	1.73	1.77	354	1282	4.4	16.1
R3/4HI	2.01	1.73	1.77	557	2016	6.9	25.3

For best function and long-lasting performance, always use white Antiseize assembly paste to lubricate the threads of the eyeglass bolts.



Force reduction when opening the maintenance gap, for example type R16 and R16HI

In the R16 example, starting from a closed maintenance gap, the spring force of the spring column is reduced by approx. 281 N for the R16HI and approx. 118 N for every 1/6 turn of the gland nut in accordance with the force curve above. The minimum compression force is reached after 15/6 turns.

All technical information and advice is based on our experience and will be given most conscientiously but without any liability.

Indication and figures are for guidance only and need to be examined by the user. All sizes are subject to manufacturing tolerances. We reserve the right to modify specifications at any time.

Please note that the technical values cannot be used all at the same time in their maximum values.

## PROLOAD-DYN LIVELOADINGSYSTEM

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### Installation instructions

The complete packing set is inserted into the stuffing box ring by ring, with the cut ends distributed symmetrically. The uppermost ring should be positioned at least 3 mm below the face of the stuffing box to ensure sufficient guidance for the gland follower. Then use the existing gland nuts to pre-tighten the packing rings in order to minimise further consolidation of the rings.

The nuts and spring columns are then placed on the gland bolts and tightened with the gland nuts. If the bolt length is not sufficient, longer bolts must be used. The nuts must be tightened so that the maintenance gap between part 1 and part 3 closes completely in order to achieve the maximum adjustment force.

The required adjustment force is achieved by turning the gland nut back in 1/6 increments. This opens the maintenance gap.

### Functional description

After setting the target value, the gland compression must be adjusted to the leakage. The width of the maintenance gap can be used as a guide.

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