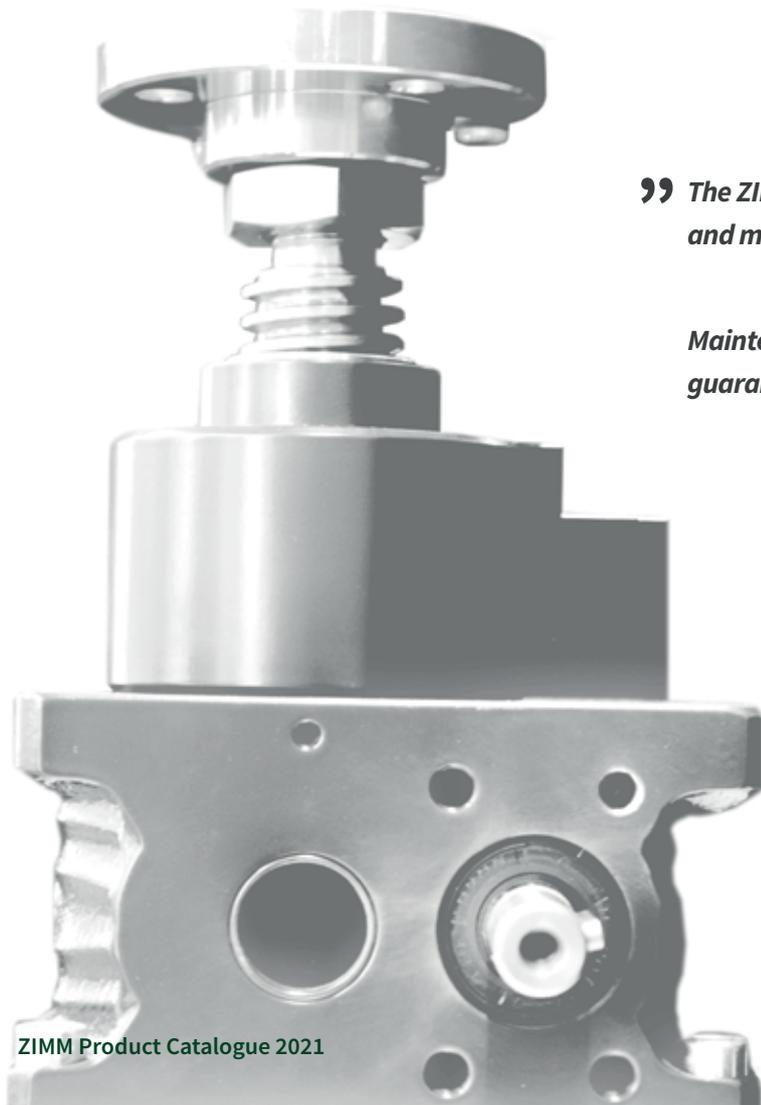


# SECURITY AND INSPECTION

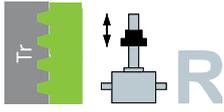
**Avoid downtime & protect people**



” *The ZIMM SIFA-S monitoring system saves you time and money in the long term.*

*Maintenance or replacement is virtually guaranteed by monitoring wear.*

**Peter Gridling | Sales Manager**



# Safety nut

## SIFA-R | rotating screw

**Function:**

The load is borne by the duplex nut. The safety nut runs alongside the duplex nut, bearing no load. If the nut thread is worn through due to wear, the SIFA takes the load.

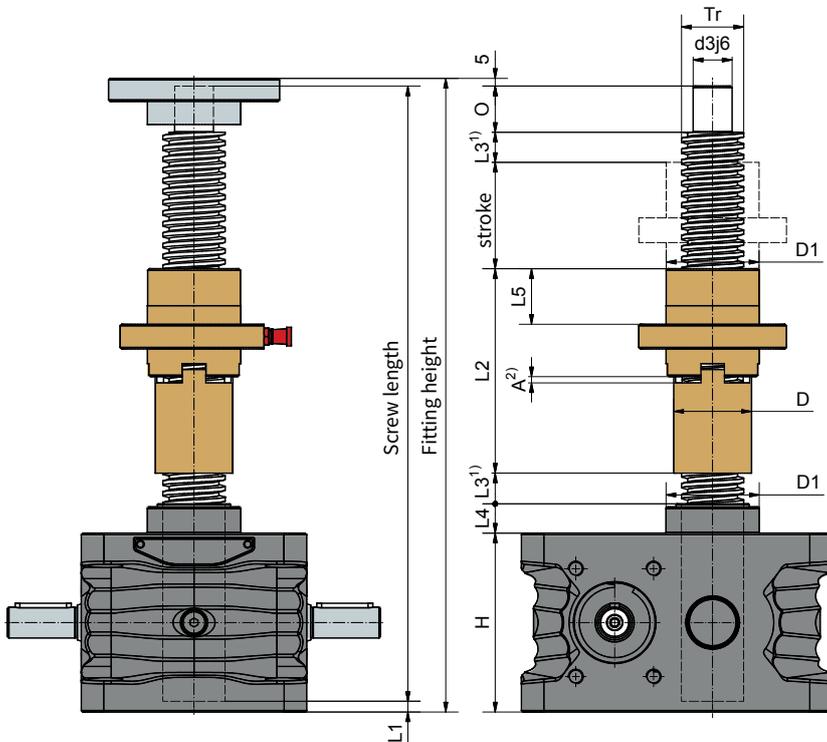
**Direction of loading, tensile or compressive**

A drawing showing the direction of loading is necessary in order to ensure the safety function. The SIFA-R operates in only one direction of loading.

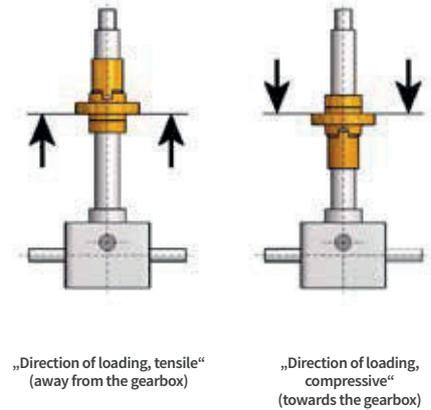


SIFA without monitoring

electrical SIFA monitoring



**Correct mounting side SIFA-R**



„Direction of loading, tensile“ (away from the gearbox)

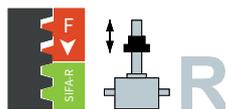
„Direction of loading, compressive“ (towards the gearbox)

Screw jacks	Tr-Thread	H	D1	D	d3j6	O	L1	L2	L3 <sup>1)</sup>	L4	L5	A <sup>2)</sup> ca.
GSZ-2	16x4	50	26	22	10	12	3	70	10	11	20	3
ZE-5 <sup>3)</sup>	18x4	62	29	24	12	15	8	70	10	12	20	3
ZE-10 <sup>3)</sup>	20x4	74	39	28	15	20	8	84	10	16	20	3
ZE-25 <sup>3)</sup>	30x6	82	46	38	20	25	5	95	10	17	23	4
ZE-35	40x7	100	60	50	25	30	7	133	10	19	36	4
ZE-50 <sup>3)</sup>	40x7	116	60	50	25	30	7	133	10	19	36	4
ZE-100 <sup>3)</sup>	55x9	160	85	65	40	45	8	173	20	30	54	6
ZE-150 <sup>3)</sup>	60x9	185	90	70	45	55	7	211	20	32	75	6
ZE-200	70x12	176	110	95	50	65	5	233	20	34	75	7
ZE-250	80x16	193	120	100	60	75	5	250	20	37	85	9
ZE-350	100x16	230	150	120	80	100	6	270	20	24	100	9
Z-500	120x16	260	170	135	95	120	6	303	40	32	110	9
Z-750	140x20	310	200	170	100	120	10	365	40	37	140	12
Z-1000	160x20	340	250	190	130	175	13	500	40	32	210	12

1) Detailed calculation of the fitting dimensions (bellows, screw, protective tube...) can be conveniently determined with our online configurator: [www.zimm.com](http://www.zimm.com)

3) SIFA values also valid for the GSZ series

2) Original setting, must be measured and documented by the customer, and referred to when checking



# Monitoring with safety nut

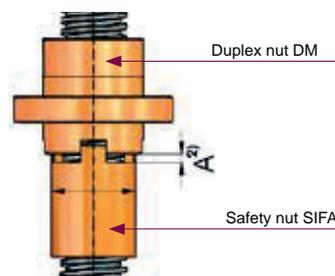
## SIFA-R | rotating screw

### Visual monitoring

Dimension A is approx. the original setting.  
Dimension A must be measured and documented by the customer, and referred to when checking.

This enables substitution to be planned well in advance and therefore prevents any unnecessary downtime.

When the thread is worn through, take the system out of service immediately.



Gearbox TrØxP	Pitch P mm	max. permissible wear/ thread play* (25% of P) mm
Tr16x4 <sup>1)</sup> , Tr18x4 <sup>1)</sup> , Tr20x4 <sup>1)</sup>	4	1
Tr30x6 <sup>1)</sup>	6	1,5
Tr40x7 <sup>1)</sup>	7	1,75
Tr55x9 <sup>1)</sup> , Tr60x9	9	2,25
Tr70x12	12	3
Tr80x16	16	4

\*Identical for double pitch screw (same thread flank thickness)

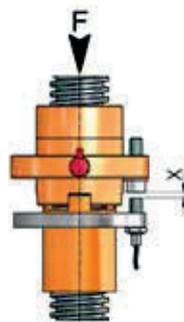
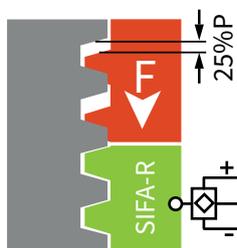
1) SIFA values also valid for the GSZ series

### Electrical monitoring

The initiator must be set so that it switches off when the load nut reaches 25% of the wear.

This enables a replacement to be planned well in advance and therefore prevents any unnecessary downtime.

When the thread is worn through, take the system out of service immediately.



#### Ordering example:

**ZE-35-RL-SIFA-OP**

Version

RN or RL

Monitoring

OP: Visual monitoring

EL: Electrical monitoring (wear, thread stripping)