

# LIFTER UNIT WITH PILLAR GUIDANCE



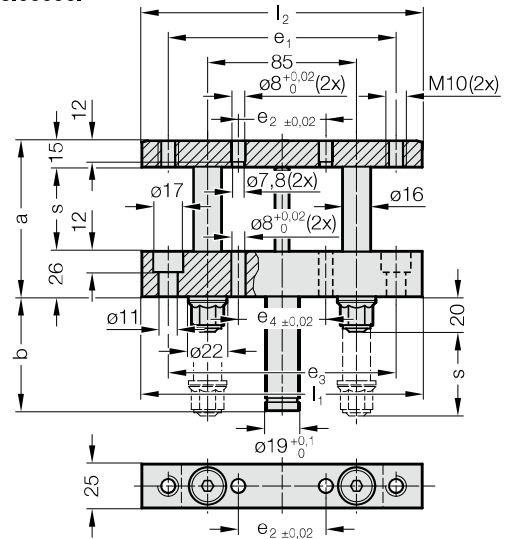
## Description:

Filling pressure regulation and a composite arrangement are possible using the cylinder tube base. To attach the strip guide on the lifter rail, use the provided threads. We recommend designing the strip guide for a maximum material width of +0.4 mm (0.2 mm for each side) (View X). When several lifter units are used, only one unit per piece should be pinned in order to prevent redundancy.

## Note:

The lifter unit is equipped with gas spring type 2482.74.00090, which cannot be repaired in case of wear and must therefore be exchanged completely.

2478.25.00090.



Initial spring force: 90 daN  
 Pressure medium: Nitrogen N<sub>2</sub>  
 Max. filling pressure: 180 bar  
 Min. filling pressure: 25 bar  
 Working temperature: 0°C to +80°C  
 Temperature related force increase: ± 0.3%/°C  
 Max. recommended extensions per minute:  
 approx. 40 to 100 (at 20°C)  
 Max. piston speed: see diagram  
 Max. usable stroke: 95%

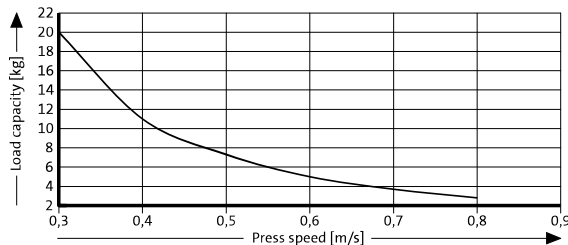
Spring forces as per spring diagram in Chapter F - 2482.74.

## 2478.25.00090. Lifter unit with pillar guidance

Order No	s Stroke max.	a	b	l <sub>1</sub>	l <sub>2</sub>	e <sub>1</sub>	e <sub>2</sub>	e <sub>3</sub>	e <sub>4</sub>	Spring force [daN]		Gas spring
										initial	final	
2478.25.00090.025	23	64	40	160	115	50	25	130	50	90	130	2482.74.00090.025.2
2478.25.00090.038	36	77	53	160	160	130	50	130	50	90	120	2482.74.00090.038.2
2478.25.00090.050	48	89	65	160	160	130	50	130	50	90	120	2482.74.00090.050.2
2478.25.00090.063	61.5	102.5	81.5	160	160	130	50	130	50	90	120	2482.74.00090.063.2
2478.25.00090.080	78	119	98	160	160	130	50	130	50	90	120	2482.74.00090.080.2
2478.25.00090.100	98	139	118	160	160	130	50	130	50	90	120	2482.74.00090.100.2
2478.25.00090.125	123	164	143	160	160	130	50	130	50	90	120	2482.74.00090.125.2
2478.25.00090.150	148	189	168	160	160	130	50	130	50	90	120	2482.74.00090.150.2

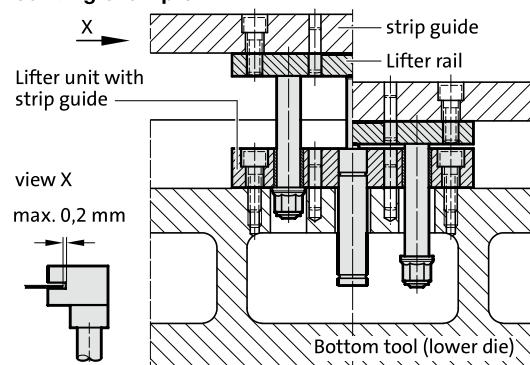
## 2478.25.00090.

Max. load per lifter unit\*\*



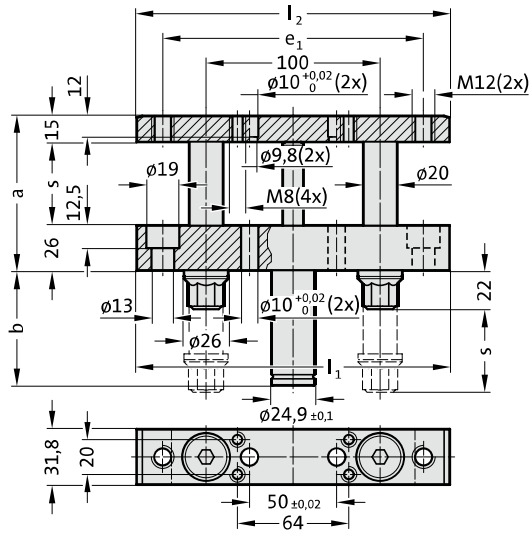
\*\* Only recommended load capacity (per lifter unit) depending on the press speed. Provide an external stop in case of higher loads.

## Mounting example



# LIFTER UNIT WITH PILLAR GUIDANCE

2478.25.00200.



## Description:

Filling pressure regulation and a composite arrangement are possible using the cylinder tube base. To attach the strip guide on the lifter rail, use the provided threads. We recommend designing the strip guide for a maximum material width of +0.4 mm (0.2 mm for each side) (View X). When several lifter units are used, only one unit per piece should be pinned in order to prevent redundancy.

## Note:

The lifter unit is equipped with gas spring type 2480.21.00200.

Initial spring force: 200 daN  
 Pressure medium: Nitrogen N<sub>2</sub>  
 Max. filling pressure: 180 bar

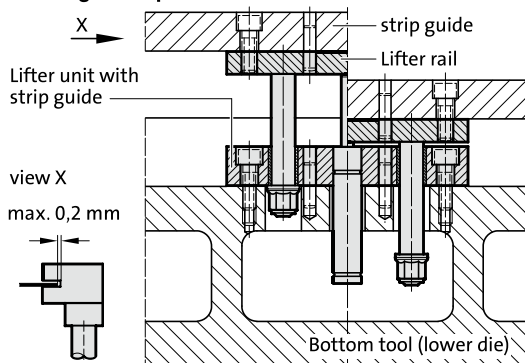
Min. filling pressure: 25 bar  
 Working temperature: 0°C to +80°C  
 Temperature related force increase: ± 0.3%/°C  
 Max. recommended extensions per minute:  
 approx. 80 to 100 (at 20°C)  
 Max. piston speed: see diagram  
 Max. usable stroke: 95%

Order No for spare parts kit: 2480.21.00150  
 Spring forces as per spring diagram in Chapter F - 2480.21.

## 2478.25.00200. Lifter unit with pillar guidance

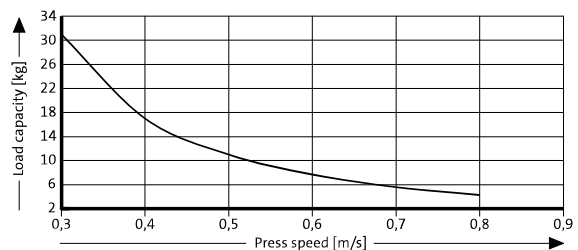
Order No	s Stroke max.	a	b	l <sub>1</sub>	l <sub>2</sub>	e <sub>1</sub>	Spring force [daN]		Gas spring
							initial	final	
2478.25.00200.025	23	64	41	180	140	-	200	308	2480.21.00200.025
2478.25.00200.038	36	77	54	180	180	150	200	309	2480.21.00200.038
2478.25.00200.050	48	89	66	180	180	150	200	309	2480.21.00200.050
2478.25.00200.063	61.5	102.5	82.5	180	180	150	200	302	2480.21.00200.063
2478.25.00200.080	78	119	99	180	180	150	200	304	2480.21.00200.080
2478.25.00200.100	98	139	119	180	180	150	200	305	2480.21.00200.100
2478.25.00200.125	123	164	144	180	180	150	200	306	2480.21.00200.125
2478.25.00200.150	148	189	177	180	180	150	200	300	2480.21.00200.150
2478.25.00200.175	173	214	202	180	180	150	200	298	2480.21.00200.175
2478.25.00200.200	198	239	227	180	180	150	200	297	2480.21.00200.200

## Mounting example



## 2478.25.00200.

### Max. load per lifter unit\*\*



\*\* Only recommended load capacity (per lifter unit) depending on the press speed. Provide an external stop in case of higher loads.