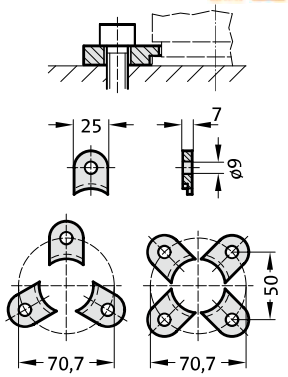
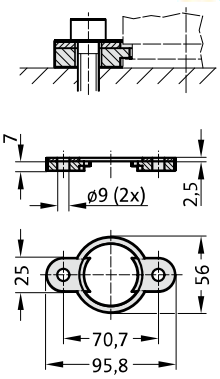
GAS SPRINGS HEAVY DUTY

GAS SPRING HEAVY DUTY
MOUNTING VARIATIONS

2480.007.00500



2480.008.00500 [3]



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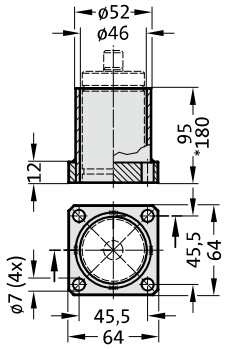
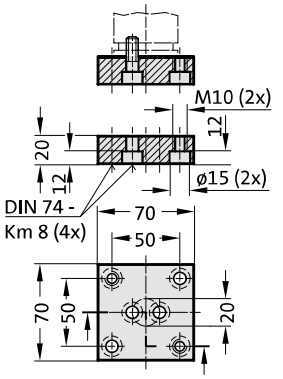
2480.010.00500.180* [3]



2480.011.00500



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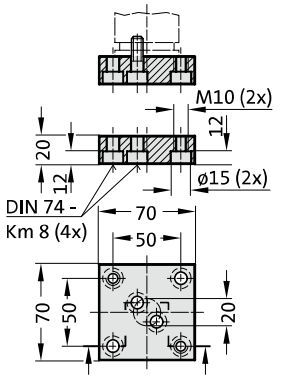
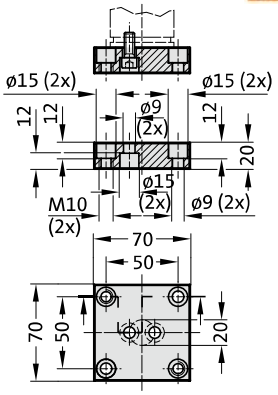


2480.011.00500.2



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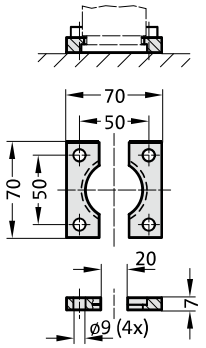

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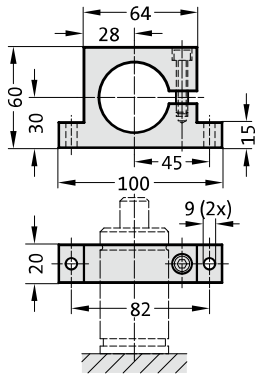

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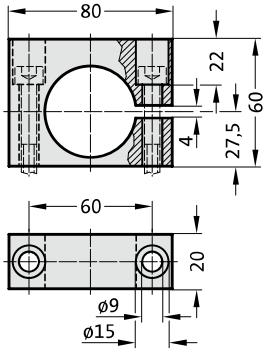
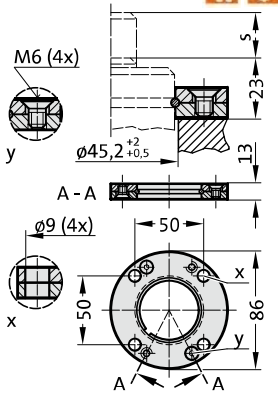


2480.055.00500



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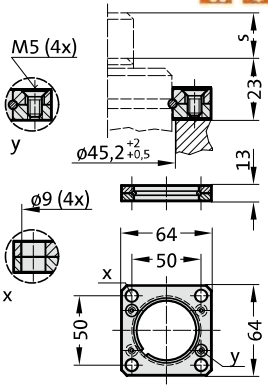
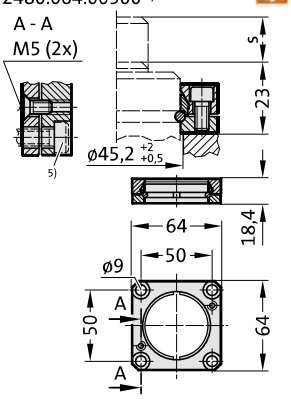


2480.064.00500 [4]



Note:

[2] Attention:
The spring force must be absorbed by the stop Surface!
[3] Not for use with composite connection.
[4] Square collar flange, non-rotating, fixing for composite connection.
[5] Machine screws with hexagonal socket (compact head recommended)

GAS SPRING HEAVY DUTY

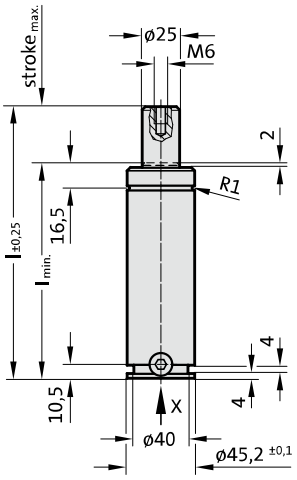
Note:
Initial spring force at 150 bar = 740 daN

Order No for spare parts kit: 2488.13.00750

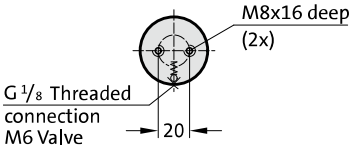
Gas spring without valve
Order No (example): 2488.13.00750. .P

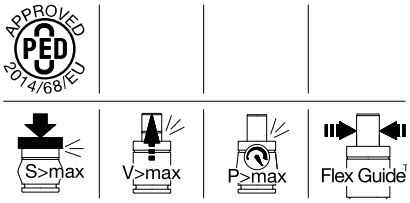
Pressure medium: Nitrogen N_2
Max. filling pressure: 150 bar
Min. filling pressure: 25 bar
Working temperature: 0°C to +80°C
Temperature related force increase: ± 0.3%/°C
Max. recommended extensions per minute:
approx. 15 to 100 (at 20°C)
Max. piston speed: 1.6 m/s

2488.13.00750.



View X



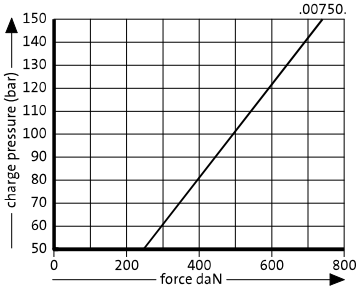


2488.13.00750.

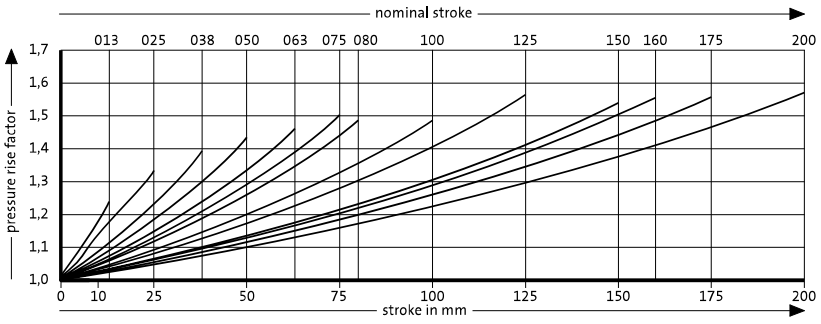
Gas spring HEAVY DUTY

Order No	Stroke max. (s)	l min.	l
2488.13.00750.013	13	98	111
2488.13.00750.025	25	110	135
2488.13.00750.038	38	123	161
2488.13.00750.050	50	135	185
2488.13.00750.063	63	148	211
2488.13.00750.075	75	160	235
2488.13.00750.080	80	165	245
2488.13.00750.100.	100	185	285
2488.13.00750.125.	125	210	335
2488.13.00750.150.	150	235	385
2488.13.00750.160.	160	245	405
2488.13.00750.175.	175	260	435
2488.13.00750.200.	200	285	485

Initial spring force
versus charge pressure



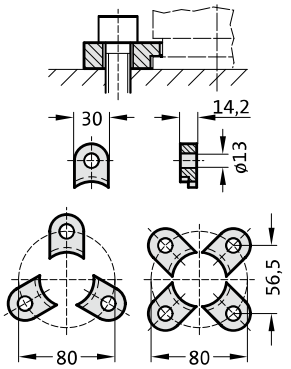
Spring force Diagram displacement versus stroke rise



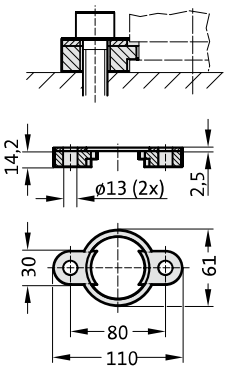
Pressure rise factor accounts for displacement but not external influences!

GAS SPRING HEAVY DUTY
MOUNTING VARIATIONS

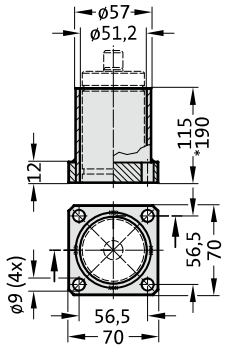
2480.007.00750



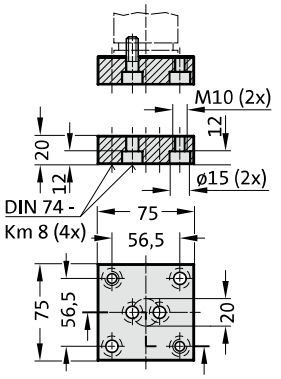
2480.008.00750 [3]



2480.010.00750.115 [3]
2480.010.00750.190* [3]



2480.011.00750



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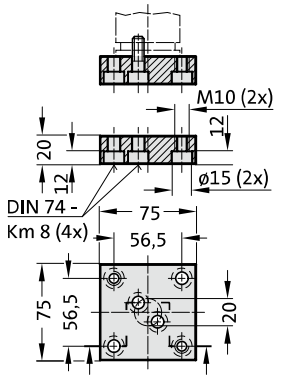
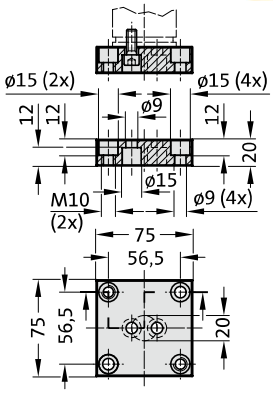
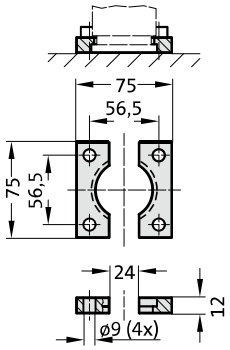


2480.011.00750.3



2480.022.00750



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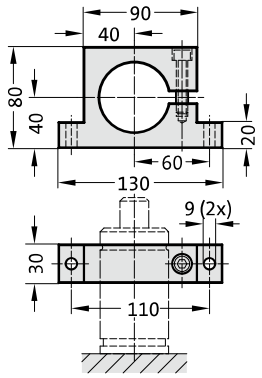

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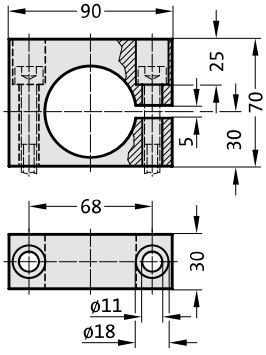

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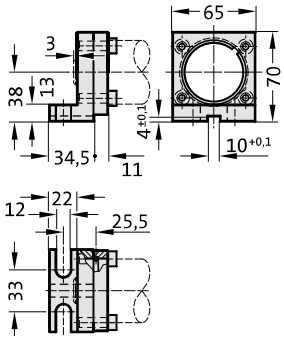

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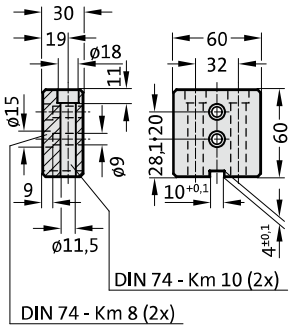

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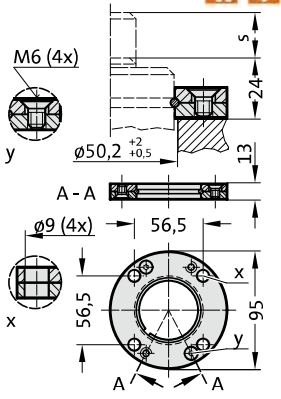
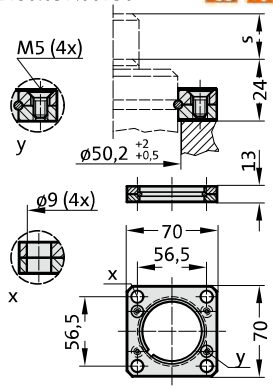
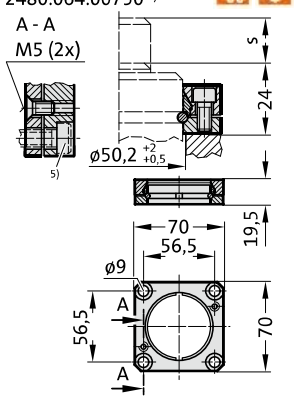


2480.057.00750



2480.064.00750 [4]



Note:

[2] Attention:
The spring force must be absorbed by the stop Surface!

[3] Not for use with composite connection.

[4] Square collar flange, non-rotating, fixing for composite connection.

[5] Machine screws with hexagonal socket (compact head recommended)

GAS SPRING HEAVY DUTY

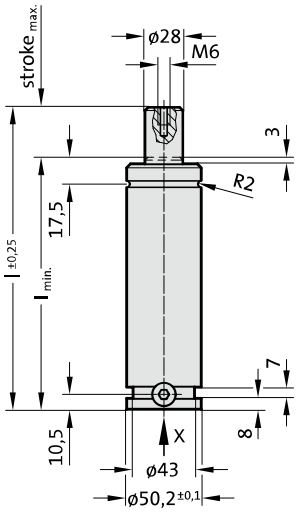
Note:
Initial spring force at 150 bar = 920 daN

Order No for spare parts kit: 2488.13.01000

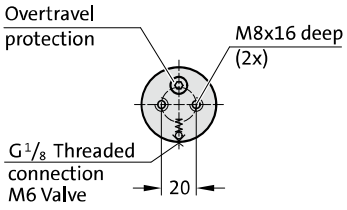
Gas spring without valve
Order No (example): 2488.13.01000. .P

Pressure medium: Nitrogen N_2
Max. filling pressure: 150 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. 15 to 100 (at 20°C)
Max. piston speed: 1.6 m/s

2488.13.01000.



View X



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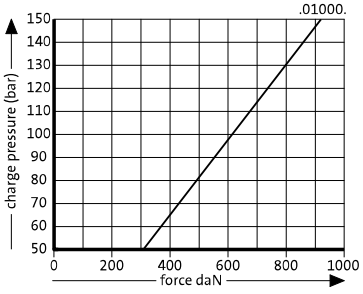
S>max | V>max | P>max | Flex Guide™

2488.13.01000.

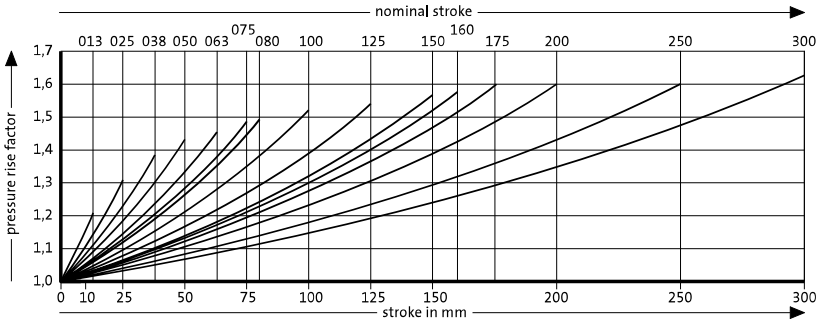
Gas spring HEAVY DUTY

Order No	Stroke$_{max.}$ (s)	$l_{min.}$	l
2488.13.01000.013	13	108	121
2488.13.01000.025	25	120	145
2488.13.01000.038	38	133	171
2488.13.01000.050	50	145	195
2488.13.01000.063	63	158	221
2488.13.01000.075	75	170	245
2488.13.01000.080	80	175	255
2488.13.01000.100	100	195	295
2488.13.01000.125	125	220	345
2488.13.01000.150	150	245	395
2488.13.01000.160	160	255	415
2488.13.01000.175	175	270	445
2488.13.01000.200	200	295	495
2488.13.01000.250	250	345	595
2488.13.01000.300	300	395	695

Initial spring force
versus charge pressure



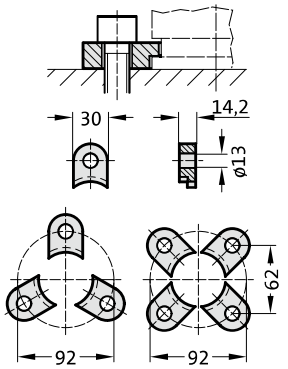
Spring force Diagram displacement versus stroke rise



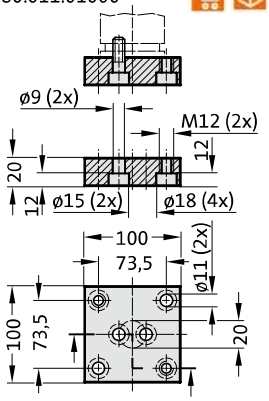
Pressure rise factor accounts for displacement but not external influences!

GAS SPRING HEAVY DUTY
MOUNTING VARIATIONS

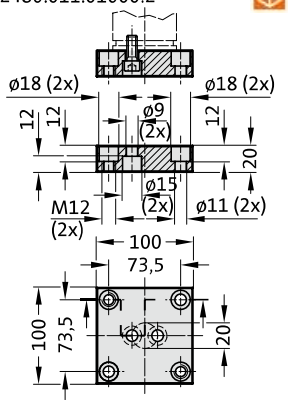
2480.007.01000



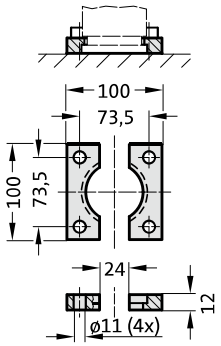
2480.011.01000



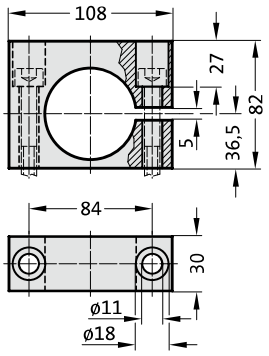
2480.011.01000.2



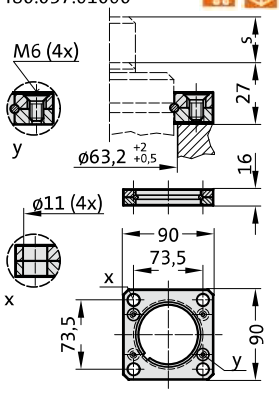
2480.022.01000



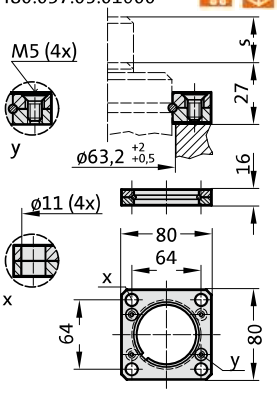
2480.044.03.01000 [2]



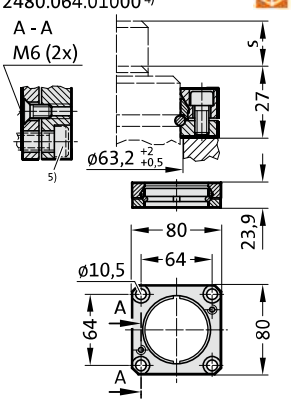
2480.057.01000



2480.057.03.01000



2480.064.01000 [4]



Note:

[2] Attention:
The spring force must be absorbed by the stop Surface!

[4] Square collar flange, non-rotating, fixing for composite connection.

[5] Machine screws with hexagonal socket (compact head recommended)

GAS SPRING HEAVY DUTY

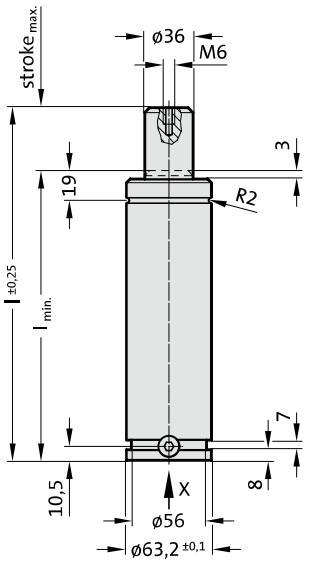
Note:
Initial spring force at 150 bar = 1500 daN

Order No for spare parts kit: 2488.13.01500

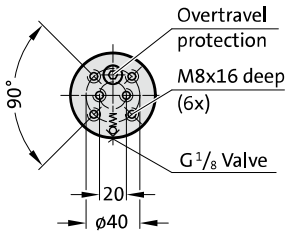
Gas spring without valve
Order No (example): 2488.13.01500. .P

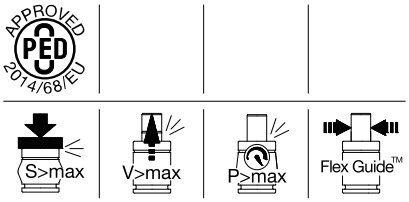
Pressure medium: Nitrogen N_2
Max. filling pressure: 150 bar
Min. filling pressure: 25 bar
Working temperature: 0°C to +80°C
Temperature related force increase: ± 0.3%/°C
Max. recommended extensions per minute:
approx. 15 to 100 (at 20°C)
Max. piston speed: 1.6 m/s

2488.13.01500.



View X



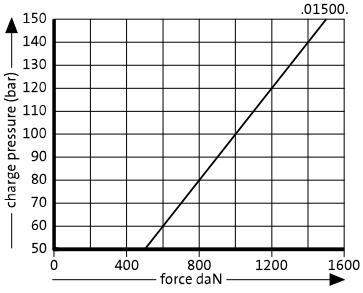


2488.13.01500.

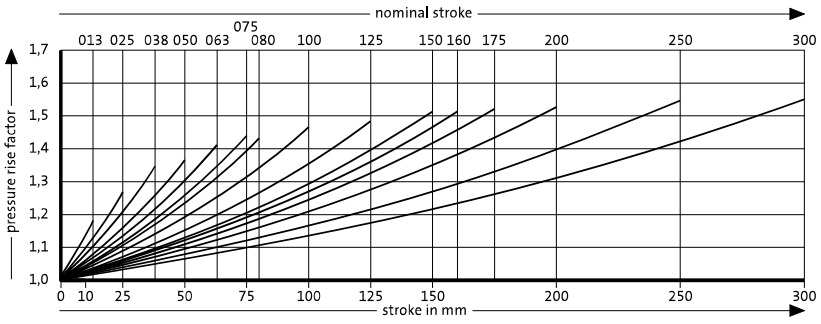
Gas spring HEAVY DUTY

Order No	Stroke$_{max.}$ (s)	$l_{min.}$	l
2488.13.01500.013	13	108	121
2488.13.01500.025	25	120	145
2488.13.01500.038	38	133	171
2488.13.01500.050	50	145	195
2488.13.01500.063	63	158	221
2488.13.01500.075	75	170	245
2488.13.01500.080	80	175	255
2488.13.01500.100	100	195	295
2488.13.01500.125	125	220	345
2488.13.01500.150	150	245	395
2488.13.01500.160	160	255	415
2488.13.01500.175	175	270	445
2488.13.01500.200	200	295	495
2488.13.01500.250	250	345	595
2488.13.01500.300	300	395	695

Initial spring force
versus charge pressure



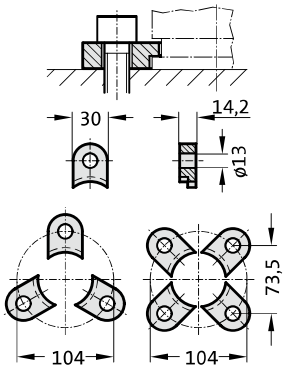
Spring force Diagram displacement versus stroke rise



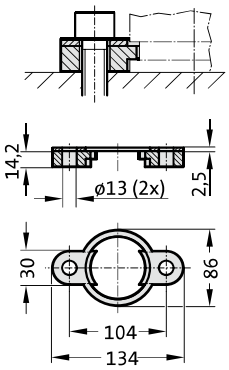
Pressure rise factor accounts for displacement but not external influences!

GAS SPRING HEAVY DUTY
MOUNTING VARIATIONS

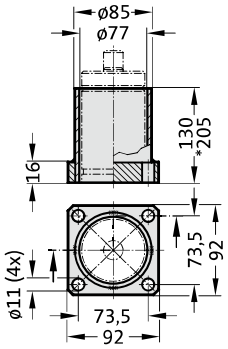
2480.007.01500



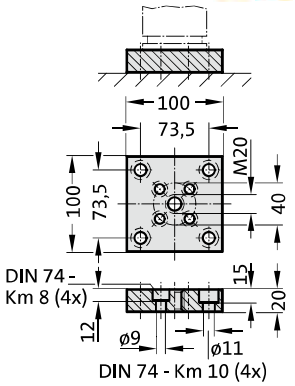
2480.008.01500 [3]



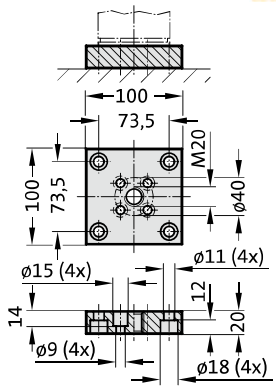
2480.010.01500.130 [3]
2480.010.01500.205* [3]



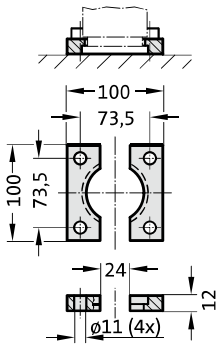
2480.011.01500



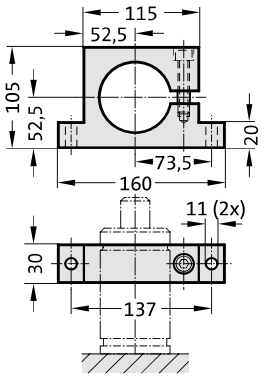
2480.011.01500.2



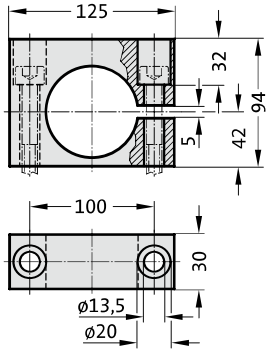
2480.022.01500



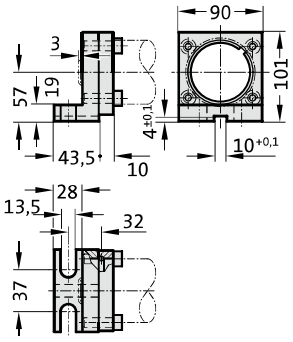
2480.044.01500 [2]



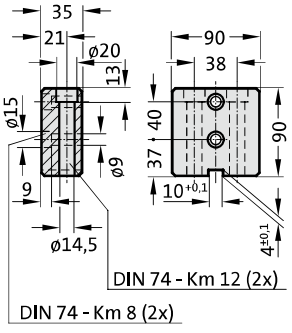
2480.044.03.01500 [2]



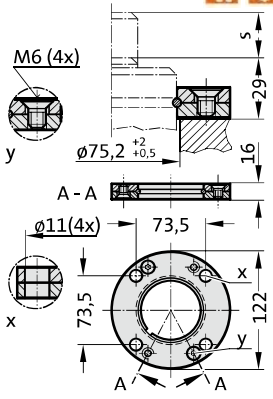
2480.045.01500 [2]



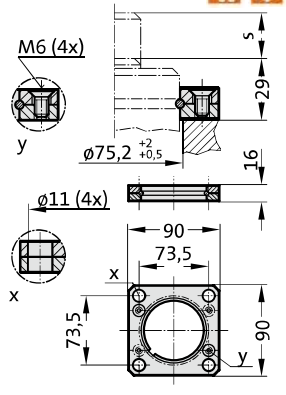
2480.047.01500 [2]



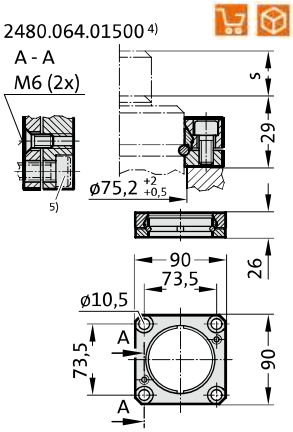
2480.055.01500



2480.057.01500



2480.064.01500 [4]



Note:

[2] Attention:
The spring force must be absorbed by the stop Surface!

[3] Not for use with composite connection.

[4] Square collar flange, non-rotating, fixing for composite connection.

[5] Machine screws with hexagonal socket (compact head recommended)

GAS SPRING HEAVY DUTY

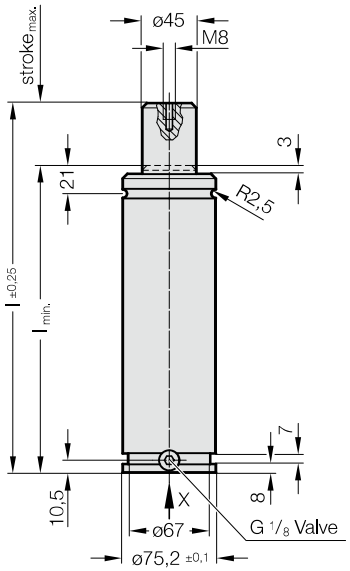
Note:
Initial spring force at 150 bar = 2400 daN

Order No for spare parts kit: 2488.13.02400

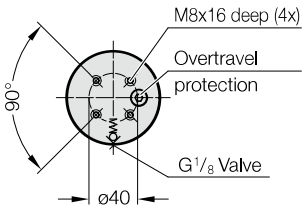
Gas spring without valve
Order No (example): 2488.13.02400. .P

Pressure medium: Nitrogen N_2
Max. filling pressure: 150 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. 15 to 100 (at 20°C)
Max. piston speed: 1.6 m/s

2488.13.02400.



View X



APPROVED PED 2014/68/EU | VDI | ISO

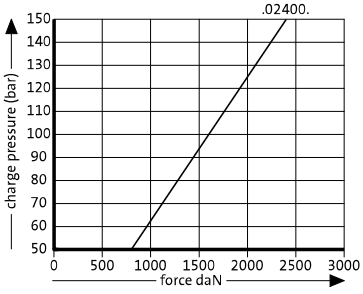
S>max | V>max | P>max | Flex Guide™

2488.13.02400.

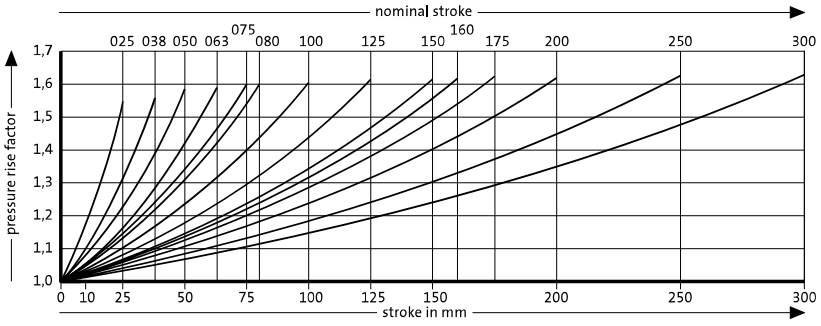
Gas spring HEAVY DUTY

Order No	Stroke$_{max.}$ (s)	$l_{min.}$	l
2488.13.02400.025	25	135	160
2488.13.02400.038	38	148	186
2488.13.02400.050	50	160	210
2488.13.02400.063	63	173	236
2488.13.02400.075	75	185	260
2488.13.02400.080	80	190	270
2488.13.02400.100	100	210	310
2488.13.02400.125	125	235	360
2488.13.02400.150	150	260	410
2488.13.02400.160	160	270	430
2488.13.02400.175	175	285	460
2488.13.02400.200	200	310	510
2488.13.02400.250	250	360	610
2488.13.02400.300	300	410	710

Initial spring force
versus charge pressure



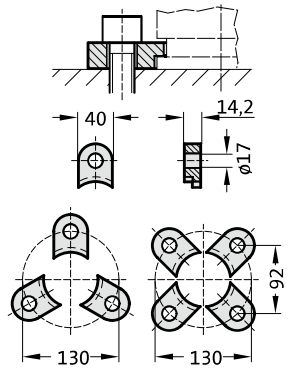
Spring force Diagram displacement versus stroke rise



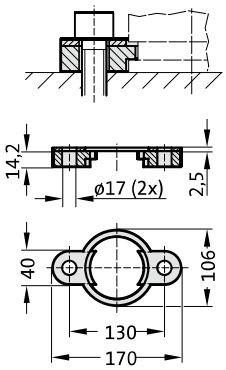
Pressure rise factor accounts for displacement but not external influences!

GAS SPRING HEAVY DUTY
MOUNTING VARIATIONS

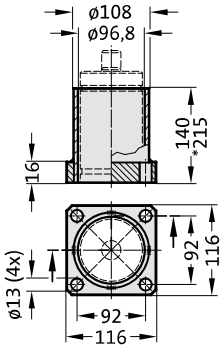
2480.007.03000



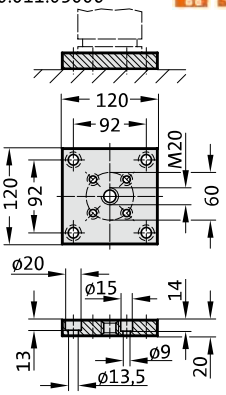
2480.008.03000 [3]



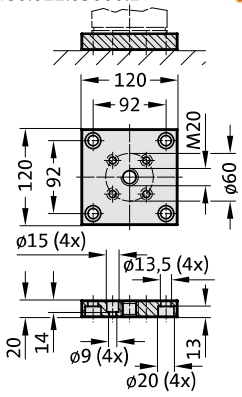
2480.010.03000.140 [3]
2480.010.03000.215* [3]



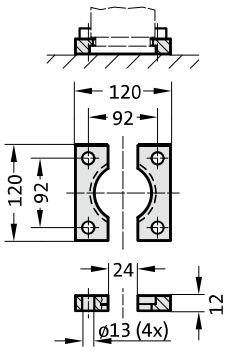
2480.011.03000



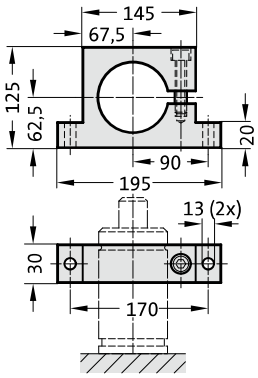
2480.011.03000.2



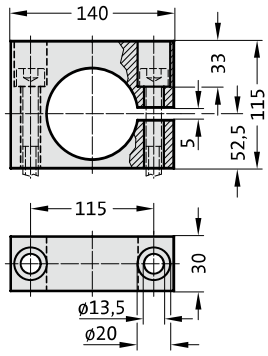
2480.022.03000



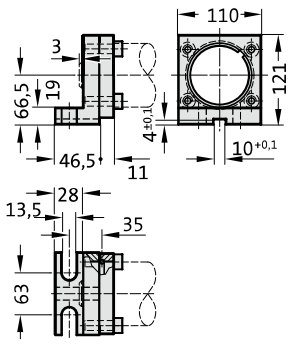
2480.044.03000 [2]



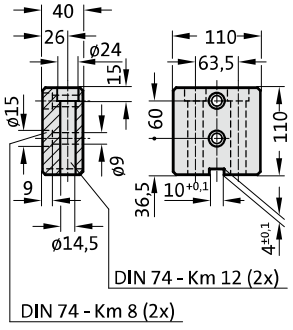
2480.044.03.03000 [2]



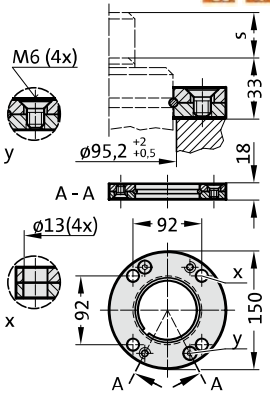
2480.045.03000 [2]



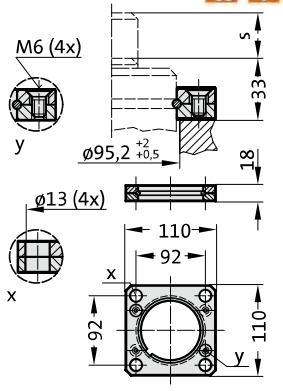
2480.047.03000 [2]



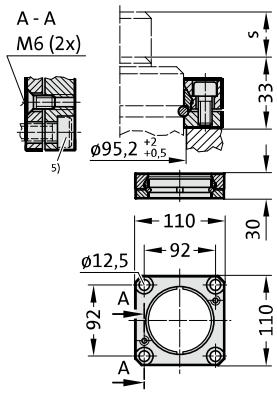
2480.055.03000



2480.057.03000



2480.064.03000 [4]



Note:

[2] Attention:
The spring force must be absorbed by the stop Surface!

[3] Not for use with composite connection.

[4] Square collar flange, non-rotating, fixing for composite connection.

[5] Machine screws with hexagonal socket (compact head recommended)

GAS SPRING HEAVY DUTY

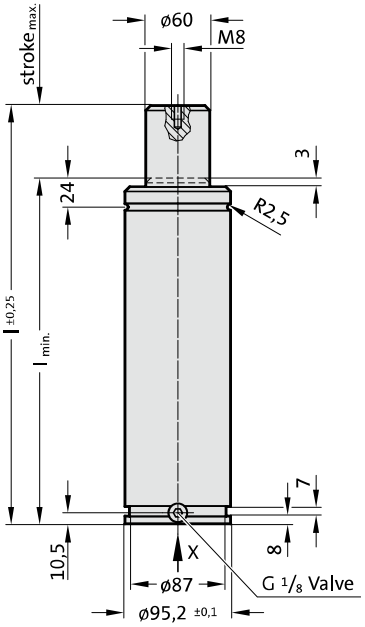
Note:
Initial spring force at 150 bar = 4200 daN

Order No for spare parts kit: 2488.13.04200

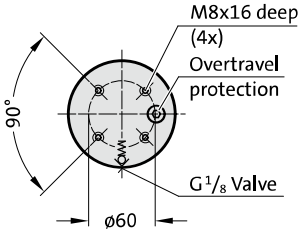
Gas spring without valve
Order No (example): 2488.13.04200. .P

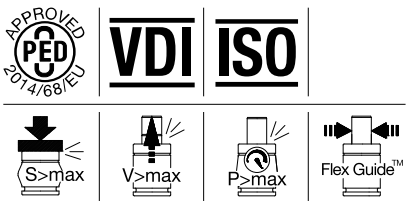
Pressure medium: Nitrogen N_2
Max. filling pressure: 150 bar
Min. filling pressure: 25 bar
Working temperature: 0°C to +80°C
Temperature related force increase: ± 0.3%/°C
Max. recommended extensions per minute:
approx. 15 to 100 (at 20°C)
Max. piston speed: 1.6 m/s

2488.13.04200.



View X



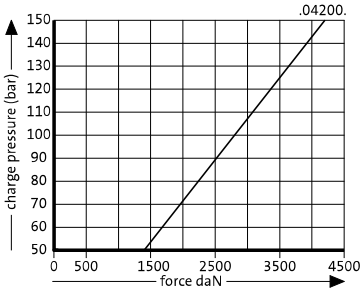


2488.13.04200.

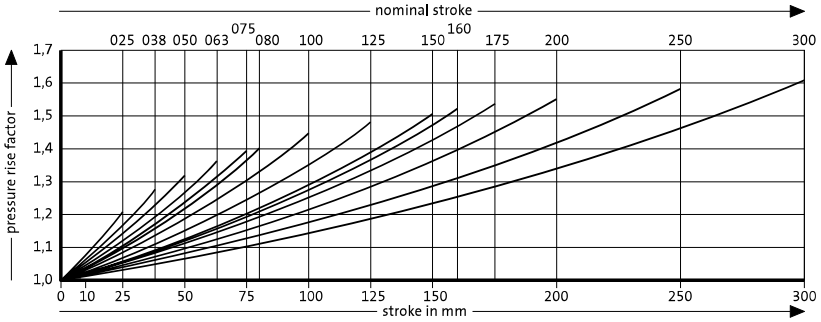
Gas spring HEAVY DUTY

Order No	Stroke$_{max.}$ (s)	l$_{min.}$	l
2488.13.04200.025	25	145	170
2488.13.04200.038	38	158	196
2488.13.04200.050	50	170	220
2488.13.04200.063	63	183	246
2488.13.04200.075	75	195	270
2488.13.04200.080	80	200	280
2488.13.04200.100	100	220	320
2488.13.04200.125	125	245	370
2488.13.04200.150	150	270	420
2488.13.04200.160	160	280	440
2488.13.04200.175	175	295	470
2488.13.04200.200	200	320	520
2488.13.04200.250	250	370	620
2488.13.04200.300	300	420	720

Initial spring force
versus charge pressure



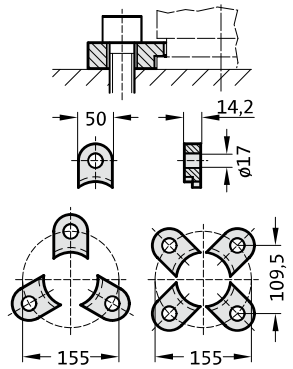
Spring force Diagram displacement versus stroke rise



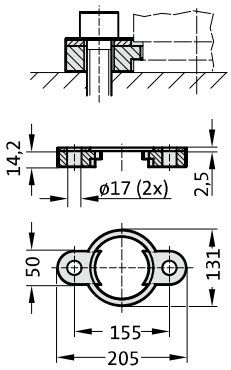
Pressure rise factor accounts for displacement but not external influences!

GAS SPRING HEAVY DUTY
MOUNTING VARIATIONS

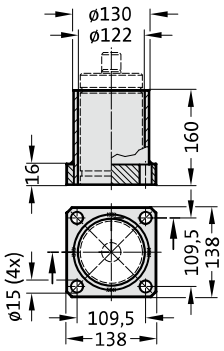
2480.007.05000



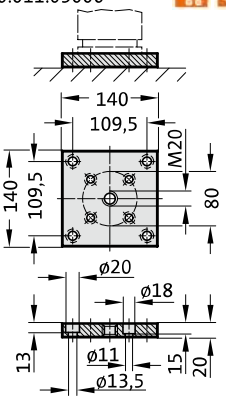
2480.008.05000 [3]



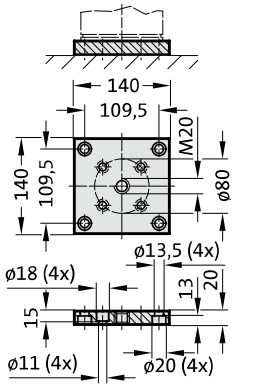
2480.010.05000.160 [3]



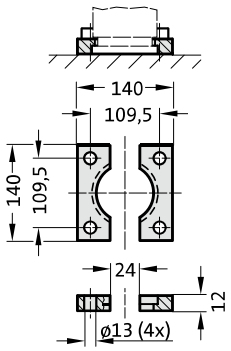
2480.011.05000



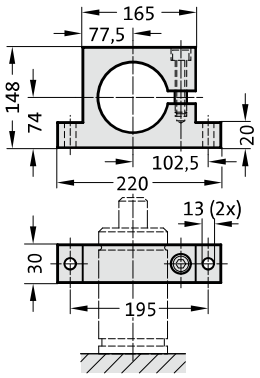
2480.011.05000.2



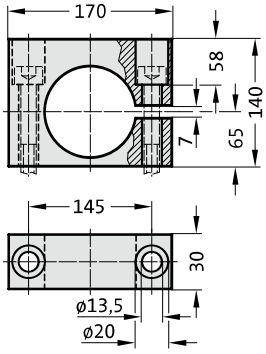
2480.022.05000



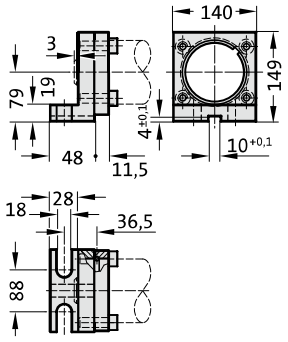
2480.044.05000 [2]



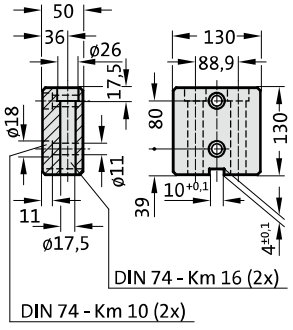
2480.044.03.05000 [2]



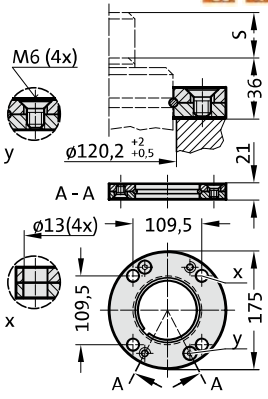
2480.045.05000 [2]



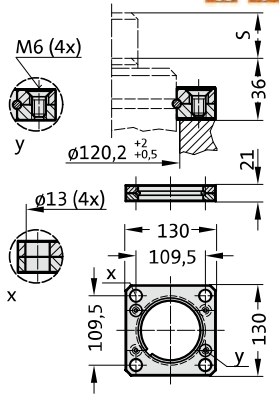
2480.047.05000 [2]



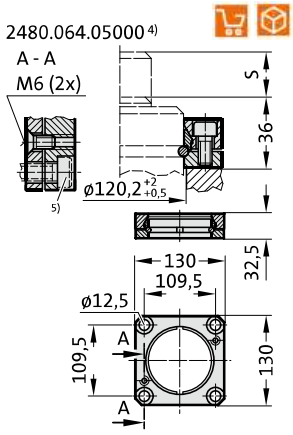
2480.055.05000



2480.057.05000



2480.064.05000 [4]



Note:

[2] Attention:
The spring force must be absorbed by the stop Surface!

[3] Not for use with composite connection.

[4] Square collar flange, non-rotating, fixing for composite connection.

[5] Machine screws with hexagonal socket (compact head recommended)

GAS SPRING HEAVY DUTY

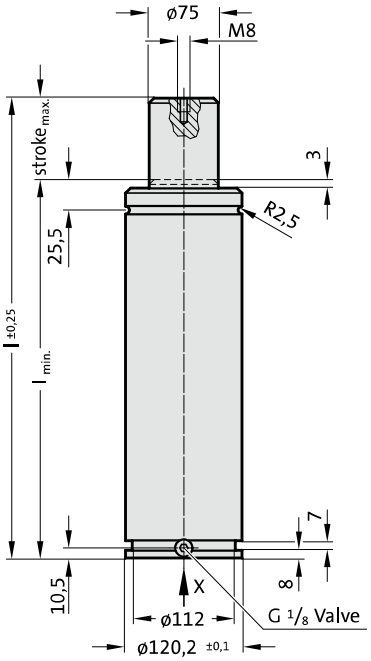
Note:
Initial spring force at 150 bar = 6600 daN

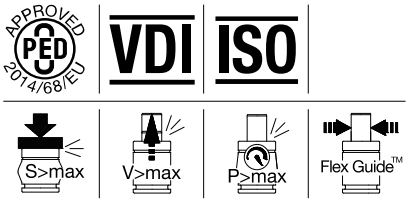
Order No for spare parts kit: 2488.13.06600

Gas spring without valve
Order No (example): 2488.13.06600. .P

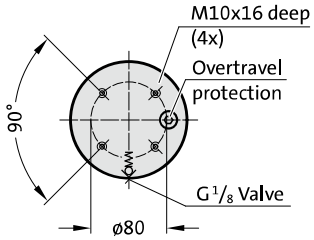
Pressure medium: Nitrogen N_2
Max. filling pressure: 150 bar
Min. filling pressure: 25 bar
Working temperature: 0°C to +80°C
Temperature related force increase: ± 0.3%/°C
Max. recommended extensions per minute:
approx. 15 to 100 (at 20°C)
Max. piston speed: 1.6 m/s

2488.13.06600.





View X

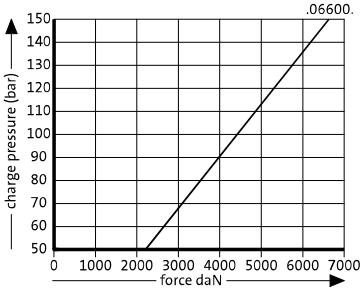


2488.13.06600.

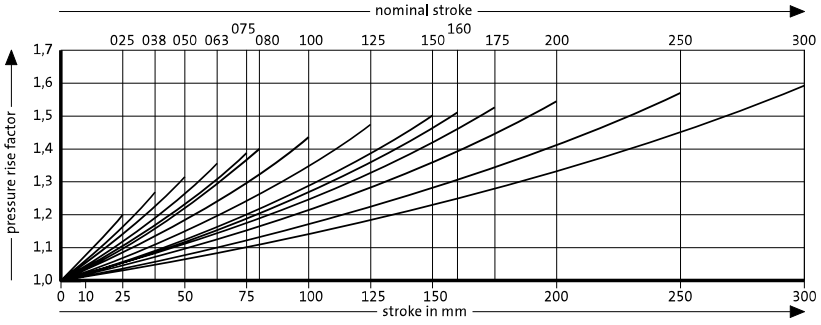
Gas spring HEAVY DUTY

Order No	Stroke max. (s)	l min.	l
2488.13.06600.025	25	165	190
2488.13.06600.038	38	178	216
2488.13.06600.050	50	190	240
2488.13.06600.063	63	203	266
2488.13.06600.075	75	215	290
2488.13.06600.080	80	220	300
2488.13.06600.100	100	240	340
2488.13.06600.125	125	265	390
2488.13.06600.150	150	290	440
2488.13.06600.160	160	300	460
2488.13.06600.175	175	315	490
2488.13.06600.200	200	340	540
2488.13.06600.250	250	390	640
2488.13.06600.300	300	440	740

Initial spring force
versus charge pressure



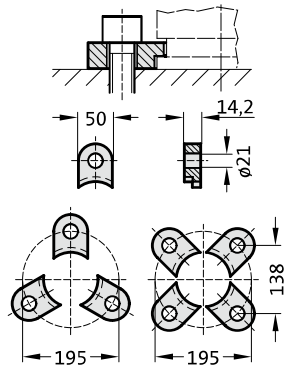
Spring force Diagram displacement versus stroke rise



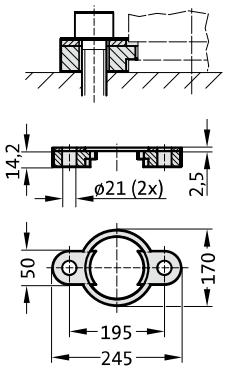
Pressure rise factor accounts for displacement but not external influences!

GAS SPRING HEAVY DUTY
MOUNTING VARIATIONS

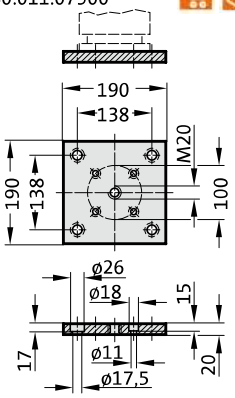
2480.007.07500



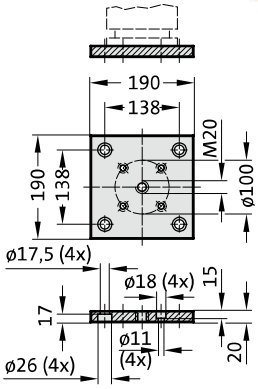
2480.008.07500 [3]



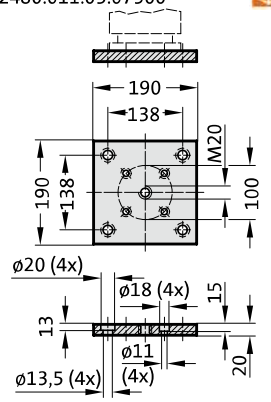
2480.011.07500



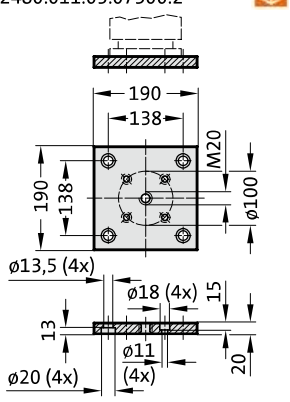
2480.011.07500.2



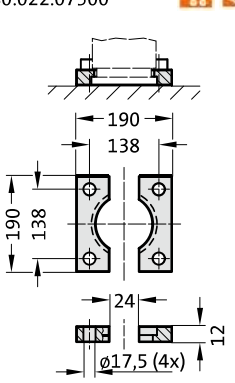
2480.011.03.07500



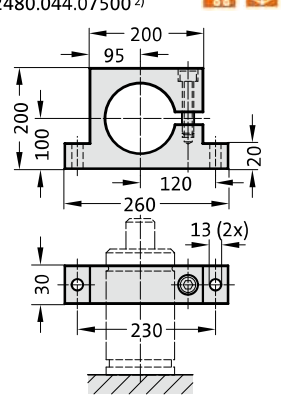
2480.011.03.07500.2



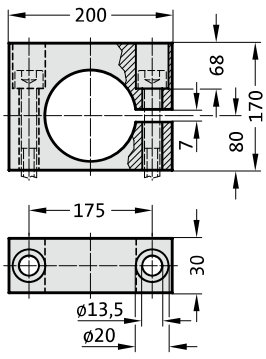
2480.022.07500



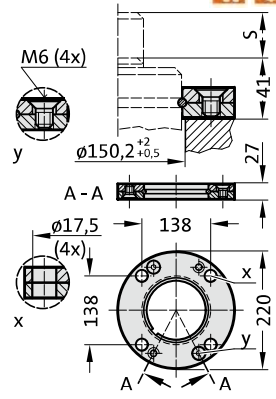
2480.044.07500 [2]



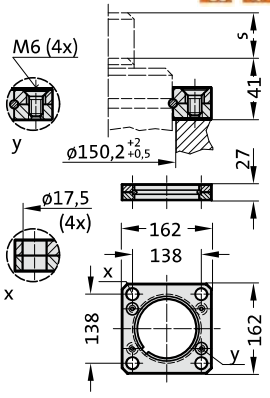
2480.044.03.07500 [2]



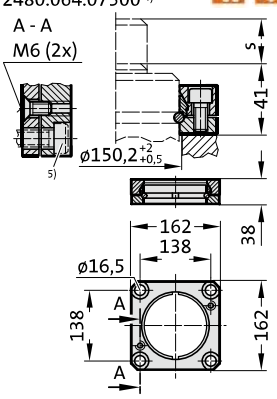
2480.055.07500



2480.057.07500



2480.064.07500 [4]



Note:

[2] Attention:
The spring force must be absorbed by the stop Surface!

[3] Not for use with composite connection.

[4] Square collar flange, non-rotating, fixing for composite connection.

[5] Machine screws with hexagonal socket (compact head recommended)

GAS SPRING HEAVY DUTY

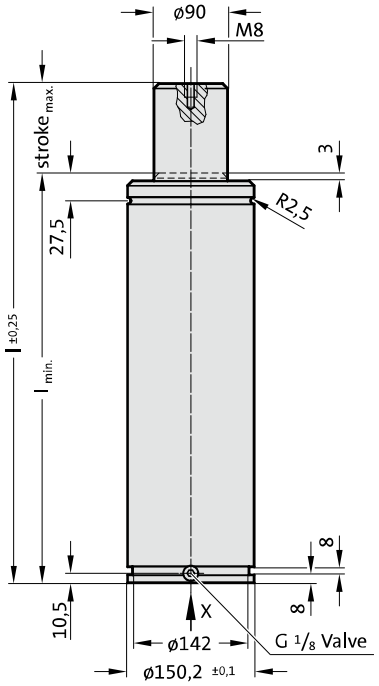
Note:
Initial spring force at 150 bar = 9500 daN

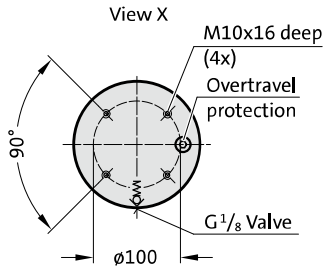
Order No for spare parts kit: 2488.13.09500

Gas spring without valve
Order No (example): 2488.13.09500. .P

Pressure medium: Nitrogen N_2
Max. filling pressure: 150 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. 15 to 100 (at 20°C)
Max. piston speed: 1.6 m/s

2488.13.09500.





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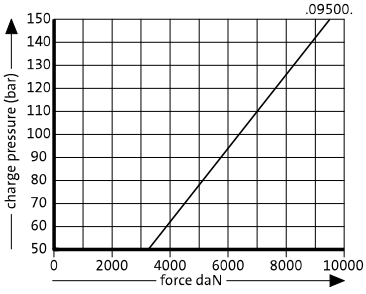
2488.13.09500.

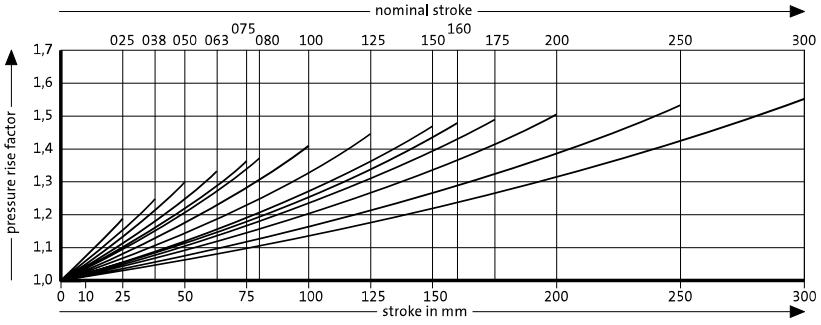
Gas spring HEAVY DUTY

Order No	Stroke$_{max.}$ (s)	$l_{min.}$	l
2488.13.09500.025	25	180	205
2488.13.09500.038	38	193	231
2488.13.09500.050	50	205	255
2488.13.09500.063	63	218	281
2488.13.09500.075	75	230	305
2488.13.09500.080	80	235	315
2488.13.09500.100	100	255	355
2488.13.09500.125	125	280	405
2488.13.09500.150	150	305	455
2488.13.09500.160	160	315	475
2488.13.09500.175	175	330	505
2488.13.09500.200	200	355	555
2488.13.09500.250	250	405	655
2488.13.09500.300	300	455	755

Initial spring force
versus charge pressure



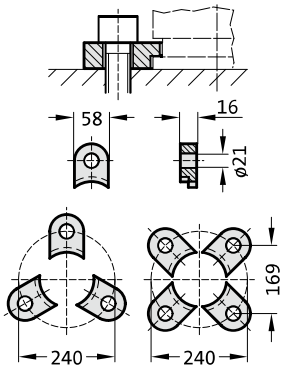
Spring force Diagram displacement versus stroke rise



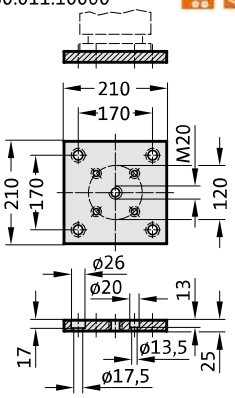
Pressure rise factor accounts for displacement but not external influences!

GAS SPRING HEAVY DUTY
MOUNTING VARIATIONS

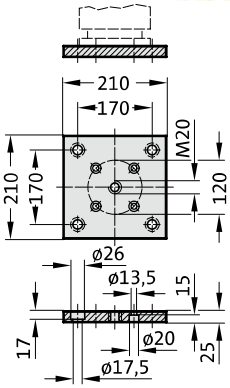
2480.007.10000



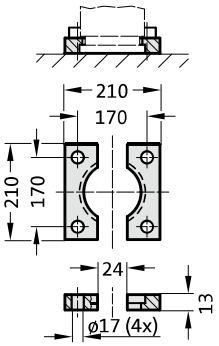
2480.011.10000



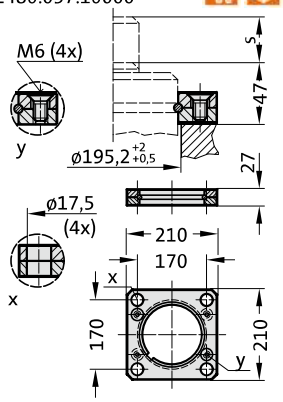
2480.011.10000.2



2480.022.10000



2480.057.10000



GAS SPRING HEAVY DUTY

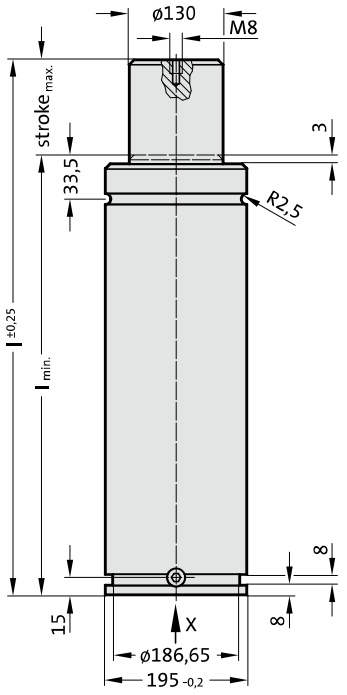
Note:
Initial spring force at 150 bar = 20000 daN

Order No for spare parts kit: 2488.13.20000

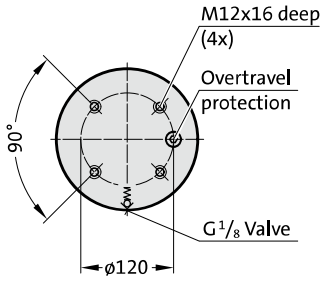
Gas spring without valve
Order No (example): 2488.13.20000. .P

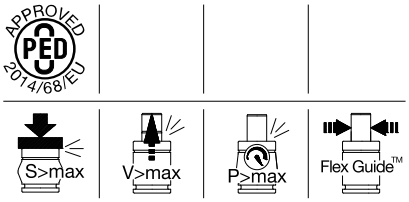
Pressure medium: Nitrogen N_2
Max. filling pressure: 150 bar
Min. filling pressure: 25 bar
Working temperature: 0°C to +80°C
Temperature related force increase: ± 0.3%/°C
Max. recommended extensions per minute:
approx. 15 to 100 (at 20°C)
Max. piston speed: 1.6 m/s

2488.13.20000.



View X



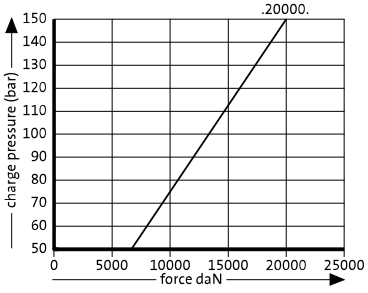


2488.13.20000.

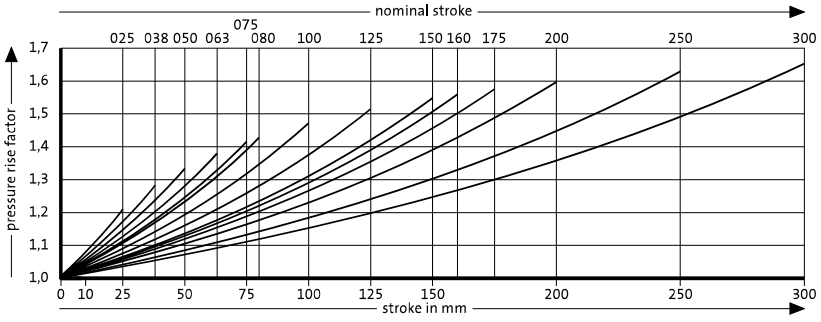
Gas spring HEAVY DUTY

Order No	Stroke max. (s)	l min.	l
2488.13.20000.025	25	185	210
2488.13.20000.038	38	198	236
2488.13.20000.050	50	210	260
2488.13.20000.063	63	223	286
2488.13.20000.075	75	235	310
2488.13.20000.080	80	240	320
2488.13.20000.100	100	260	360
2488.13.20000.125	125	285	410
2488.13.20000.150	150	310	460
2488.13.20000.160	160	320	480
2488.13.20000.175	175	335	510
2488.13.20000.200	200	360	560
2488.13.20000.250	250	410	660
2488.13.20000.300	300	460	760

Initial spring force
versus charge pressure



Spring force Diagram displacement versus stroke rise

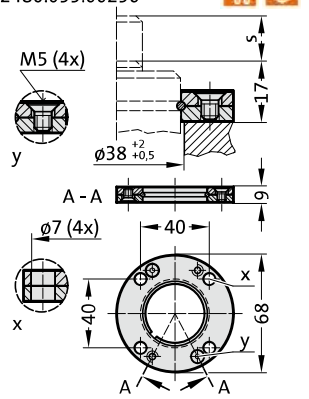


Pressure rise factor accounts for displacement but not external influences!

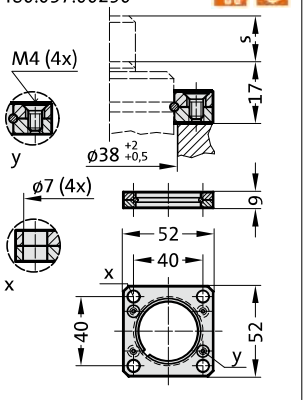
GAS SPRING WITH THROUGH BORE PASSAGE

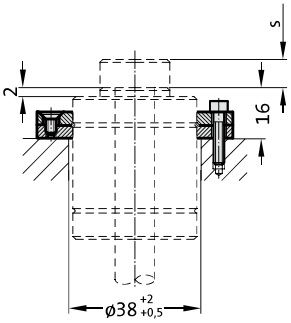
GAS SPRING WITH THROUGH BORE PASSAGE
MOUNTING VARIATIONS

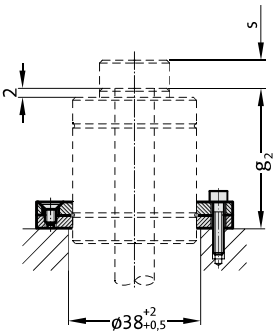
2480.055.00250

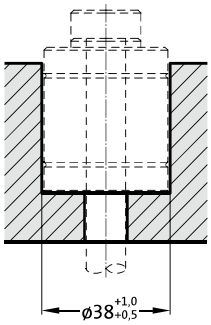


2480.057.00250









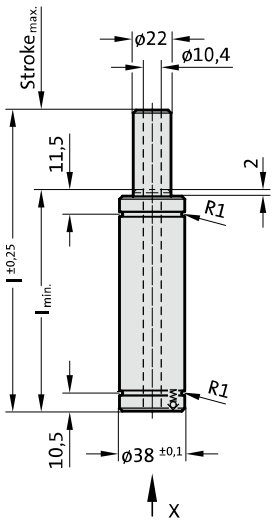
GAS SPRING WITH THROUGH BORE PASSAGE

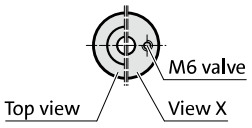
Note:
Initial spring force at 150 bar = 270 daN

Order No for spare parts kit: 2496.12.00270

Pressure medium: Nitrogen N_2
Max. filling pressure: 150 bar
Min. filling pressure: 50 bar
Working temperature: 0°C to +80°C
Temperature related force increase: ± 0.3%/°C
Max. recommended extensions per minute:
approx. 15 to 40 (at 20°C)
Max. piston speed: 0.5 m/s

2496.12.00270.





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V>max

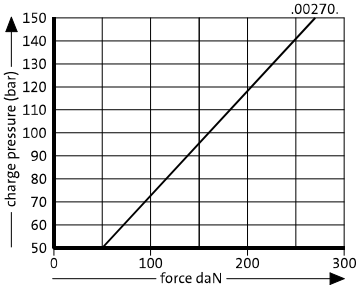
2496.12.00270.

Gas spring with through bore passage

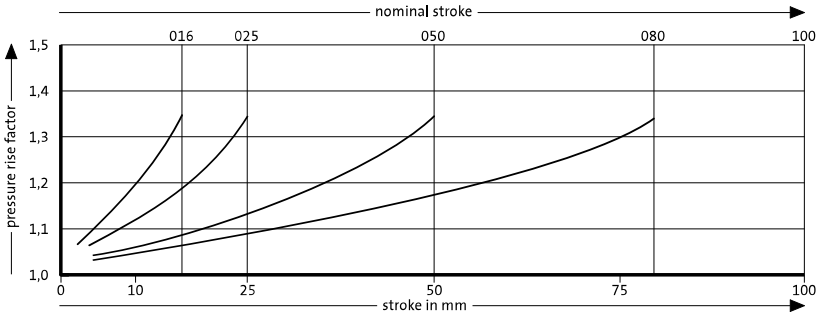
Order No	Stroke max. (s)	l min.	l	g2*
2496.12.00270.016	16	92	108	86
2496.12.00270.025	25	101	126	95
2496.12.00270.050	50	126	176	120
2496.12.00270.080	80	156	236	150

see mounting example

Initial spring force
versus charge pressure



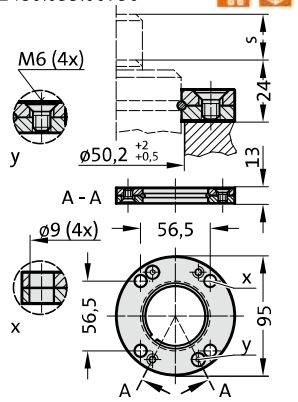
Spring force Diagram displacement versus stroke rise



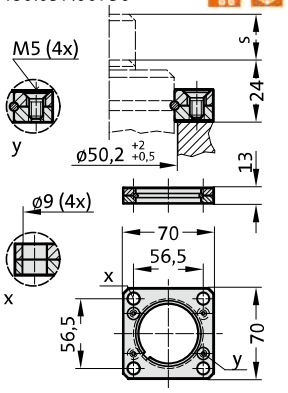
Pressure rise factor accounts for displacement but not external influences!

GAS SPRING WITH THROUGH BORE PASSAGE
MOUNTING VARIATIONS

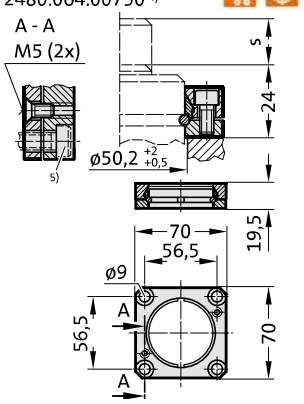
2480.055.00750



2480.057.00750



2480.064.00750 [4]

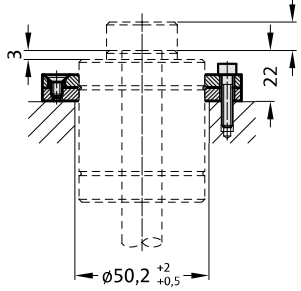


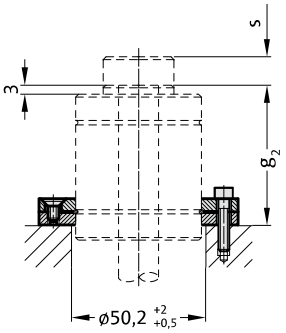
Note:

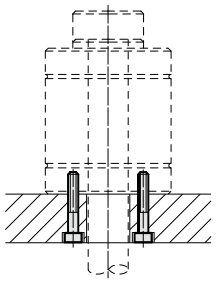
[4] Square collar flange, non-rotating, fixing for composite connection.

[5] Machine screws with hexagonal socket (compact head recommended)

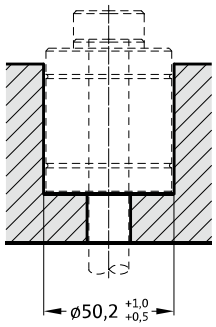
Mounting examples:







see Note!



GAS SPRING WITH THROUGH BORE PASSAGE

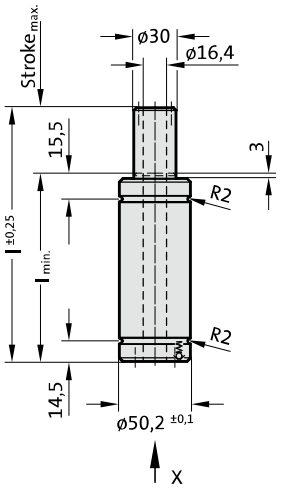
Note:
Initial spring force at 150 bar = 490 daN

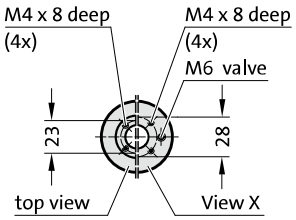
When mounting to floor, contact over the entire floor of the cylinder tube must be ensured!

Order No for spare parts kit: 2496.12.00490

Pressure medium: Nitrogen N_2
Max. filling pressure: 150 bar
Min. filling pressure: 50 bar
Working temperature: 0°C to +80°C
Temperature related force increase: ± 0.3%/°C
Max. recommended extensions per minute: approx. 15 to 40 (at 20°C)
Max. piston speed: 0.5 m/s

2496.12.00490.





APPROVED PED 2014/68/EU

V>max

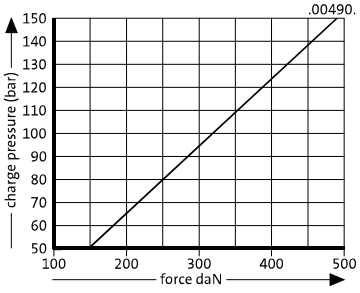
2496.12.00490.

Gas spring with through bore passage

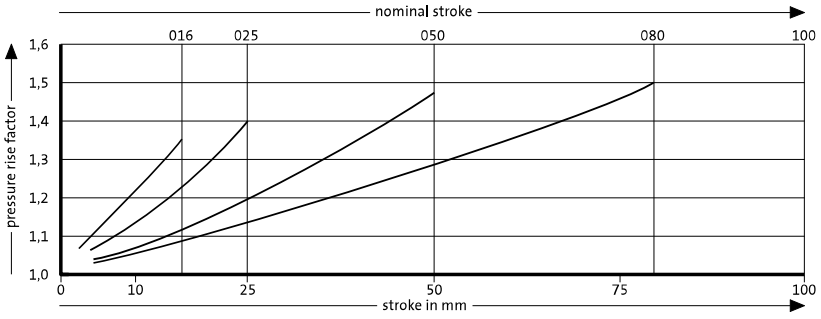
Order No	Stroke$_{max.}$ (s)	l$_{min.}$	l	g$_2$*
2496.12.00490.016	16	96	112	88
2496.12.00490.025	25	105	130	97
2496.12.00490.050	50	130	180	122
2496.12.00490.080	80	160	240	152

see mounting example

Initial spring force versus charge pressure



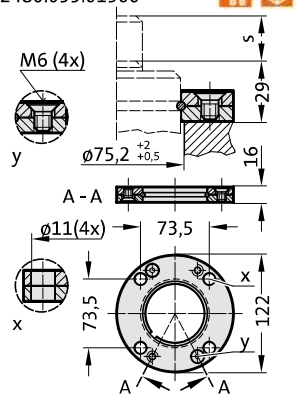
Spring force Diagram displacement versus stroke rise



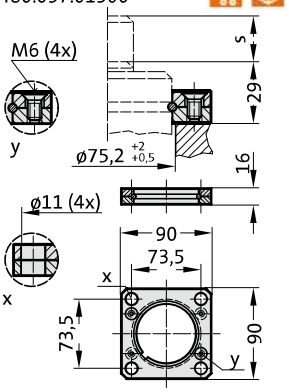
Pressure rise factor accounts for displacement but not external influences!

GAS SPRING WITH THROUGH BORE PASSAGE
MOUNTING VARIATIONS

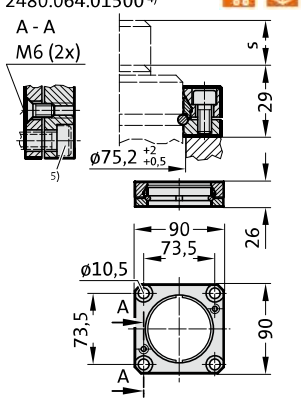
2480.055.01500



2480.057.01500



2480.064.01500 [4]

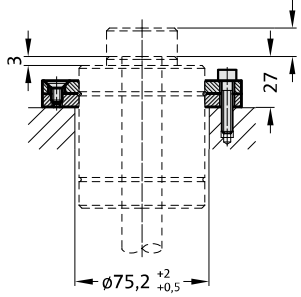


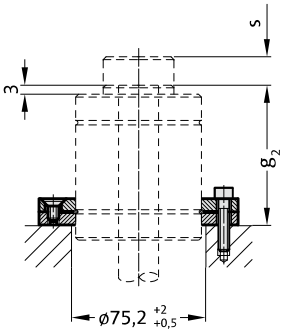
Note:

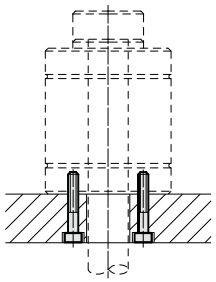
[4] Square collar flange, non-rotating, fixing for composite connection.

[5] Machine screws with hexagonal socket (compact head recommended)

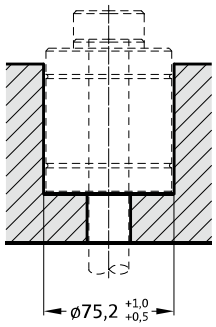
Mounting examples:







see Note!



GAS SPRING WITH THROUGH BORE PASSAGE

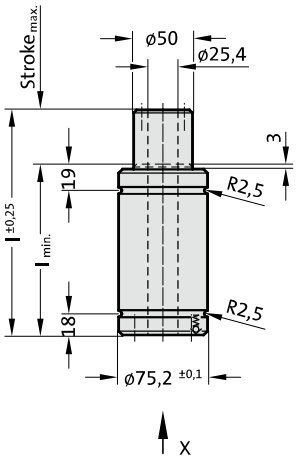
Note:
Initial spring force at 150 bar = 1060 daN

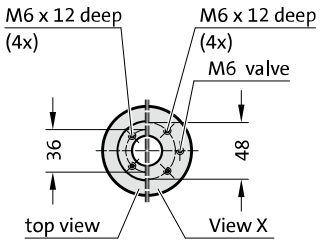
When mounting to floor, contact over the entire floor of the cylinder tube must be ensured!

Order No for spare parts kit: 2496.12.01060

Pressure medium: Nitrogen N_2
Max. filling pressure: 150 bar
Min. filling pressure: 50 bar
Working temperature: 0°C to +80°C
Temperature related force increase: ± 0.3%/°C
Max. recommended extensions per minute: approx. 15 to 40 (at 20°C)
Max. piston speed: 0.5 m/s

2496.12.01060.





APPROVED PED 2014/68/EU

V>max

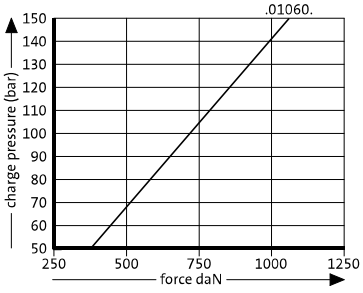
2496.12.01060.

Gas spring with through bore passage

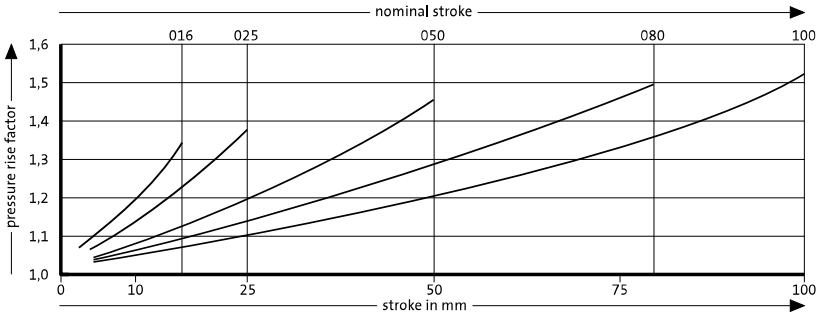
Order No	Stroke max. (s)	l min.	l	g2*
2496.12.01060.016	16	106	122	96
2496.12.01060.025	25	115	140	105
2496.12.01060.050	50	140	190	130
2496.12.01060.080	80	170	250	160
2496.12.01060.100	100	190	290	180

see mounting example

Initial spring force versus charge pressure



Spring force Diagram displacement versus stroke rise



Pressure rise factor accounts for displacement but not external influences!