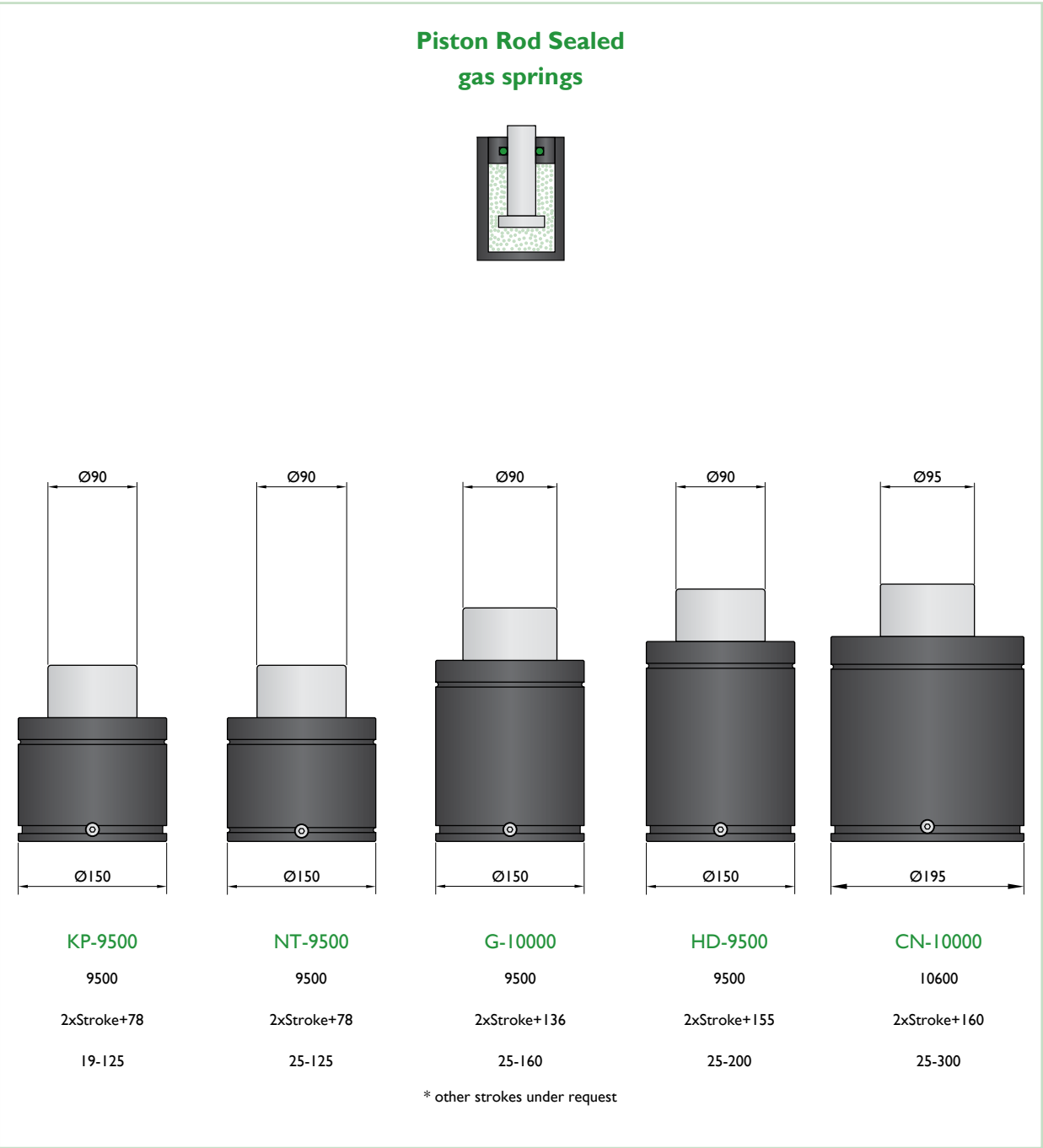


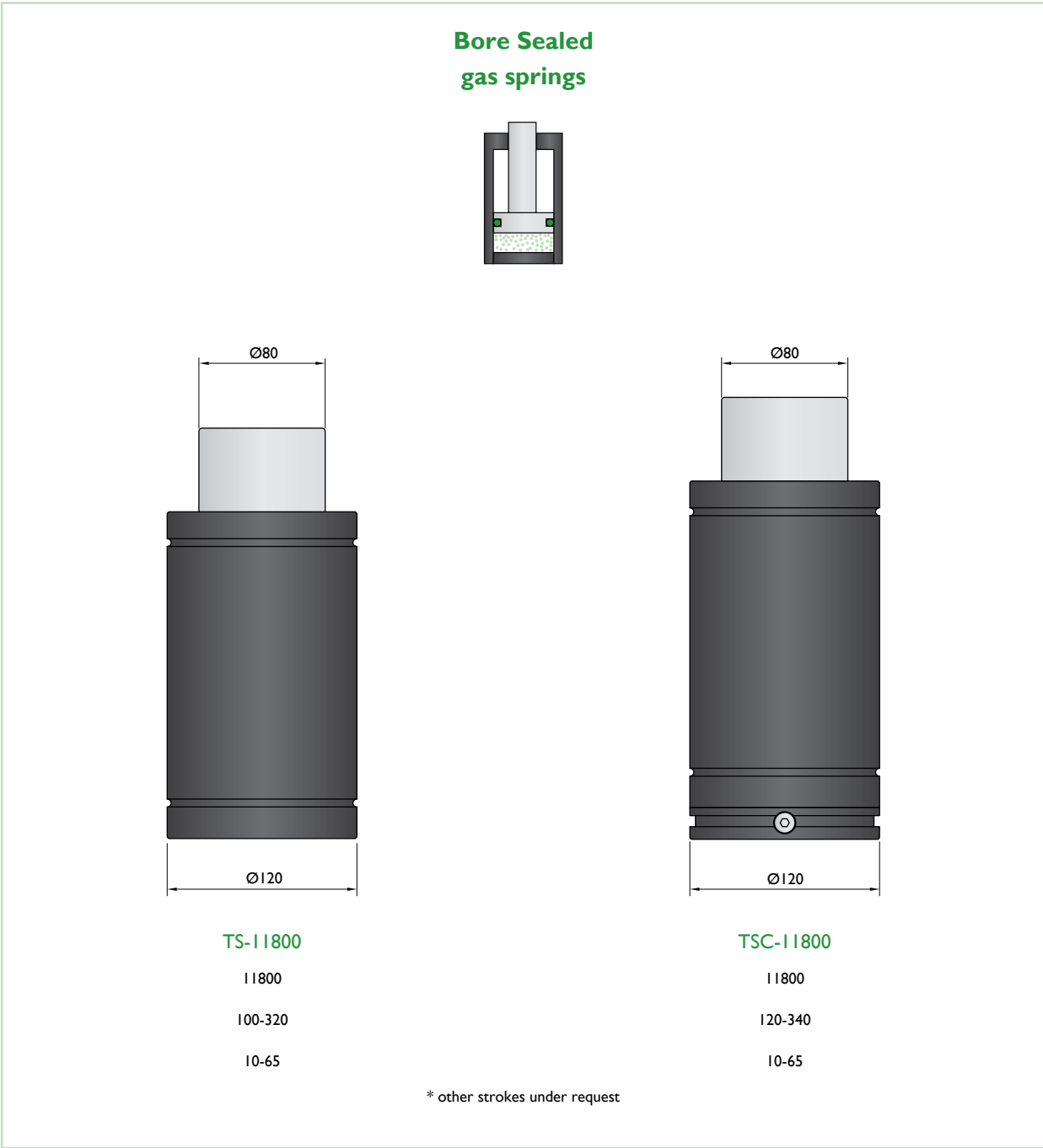
Force 10000 daN



Standards

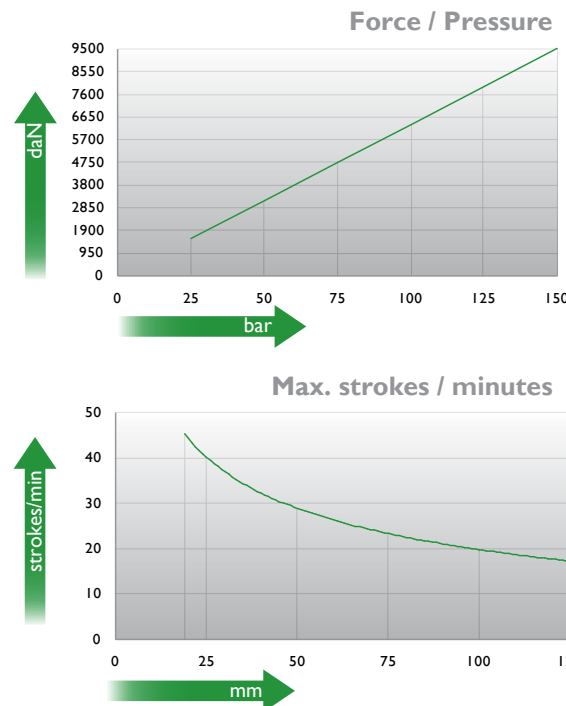
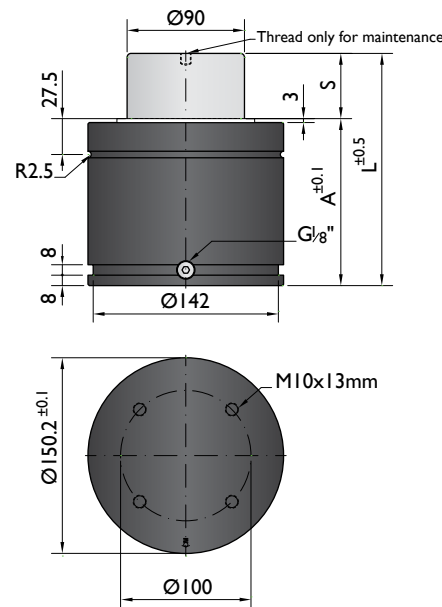
|                      |                      |                      |                      |                      |
|----------------------|----------------------|----------------------|----------------------|----------------------|
| PED<br>2014/68/EU    | PED<br>2014/68/EU    | PED<br>2014/68/EU    | PED<br>2014/68/EU    | PED<br>2014/68/EU    |
| ISO<br>11901         | ISO<br>11901         | ISO<br>11901         | ISO<br>11901         | ISO<br>11901         |
| VDI<br>3003          | VDI<br>3003          | VDI<br>3003          | VDI<br>3003          | VDI<br>3003          |
| CNOMO<br>EM24.54.700 | CNOMO<br>EM24.54.700 | CNOMO<br>EM24.54.700 | CNOMO<br>EM24.54.700 | CNOMO<br>EM24.54.700 |

Force 10000 daN



Standards

|                      |                      |
|----------------------|----------------------|
| PED<br>2014/68/EU    | PED<br>2014/68/EU    |
| ISO<br>11901         | ISO<br>11901         |
| VDI<br>3003          | VDI<br>3003          |
| CNOMO<br>EM24.54.700 | CNOMO<br>EM24.54.700 |



Ordering example: 4 x KP-9500-125

| Order No.   | S <sup>(1)</sup><br>mm | L<br>mm | A<br>mm | F <sub>0</sub> <sup>(2)</sup><br>daN<br>(20°C, 150 bar) | F<br>daN | kg    |
|-------------|------------------------|---------|---------|---------------------------------------------------------|----------|-------|
| KP-9500-19  | 19                     | 116     | 97      | 9500                                                    | 12800    | 9.90  |
| KP-9500-25  | 25                     | 128     | 103     |                                                         | 13200    | 10.25 |
| KP-9500-32  | 32                     | 142     | 110     |                                                         | 13600    | 11.03 |
| KP-9500-38  | 38                     | 154     | 116     |                                                         | 13800    | 12.16 |
| KP-9500-50  | 50                     | 178     | 128     |                                                         | 14200    | 13.77 |
| KP-9500-63  | 63                     | 204     | 141     |                                                         | 17400    | 14.73 |
| KP-9500-75  | 75                     | 228     | 153     |                                                         | 17300    | 15.63 |
| KP-9500-80  | 80                     | 238     | 158     |                                                         | 17300    | 15.97 |
| KP-9500-100 | 100                    | 278     | 178     |                                                         | 17200    | 16.53 |
| KP-9500-125 | 125                    | 328     | 203     |                                                         | 17100    | 17.15 |

other strokes under request

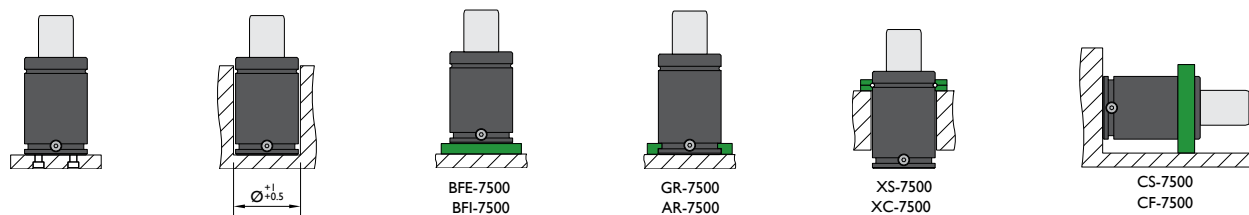
alternative forces upon request

ESK available for other strokes



|                        |                |                                    |           |                      |             |
|------------------------|----------------|------------------------------------|-----------|----------------------|-------------|
| Pressure medium        | N <sub>2</sub> | Working temperature                | 0-80°C    | Min. security stroke | 10%         |
| Max. Charging pressure | 150 bar        | Temperature related force increase | +0.34%/°C | Repair Kit           | KIT KP-9500 |
| Min. Charging pressure | 25 bar         | Max. working speed                 | 1.6 m/s   | Linkable             | G1/8"       |

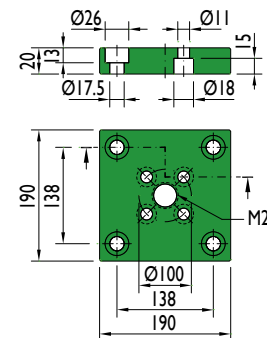
## Mounting possibilities



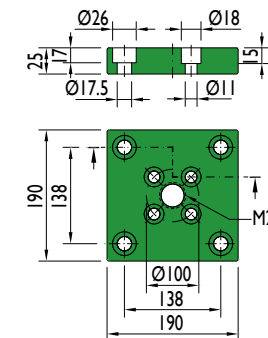
Flange must not support spring's force

## Flanges

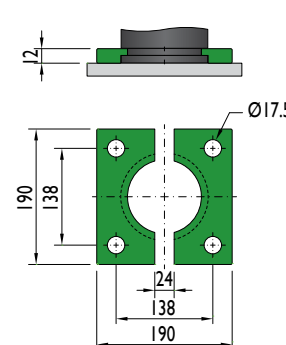
### BFE-7500



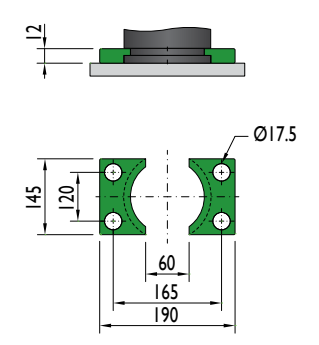
### BFI-7500



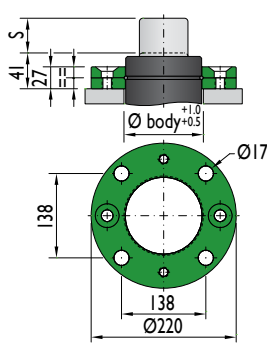
### GR-7500



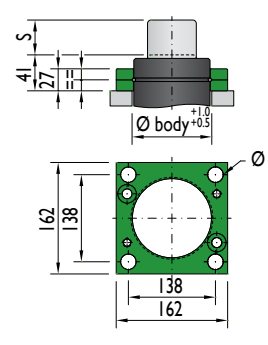
### AR-7500



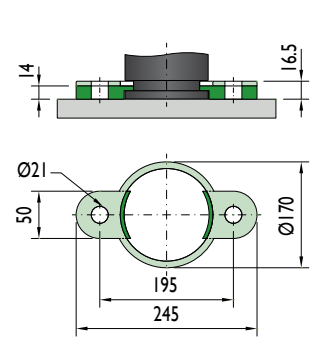
### XS-7500



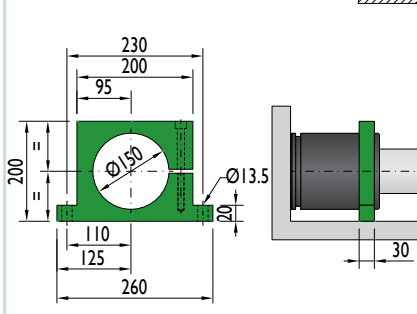
### XC-7500



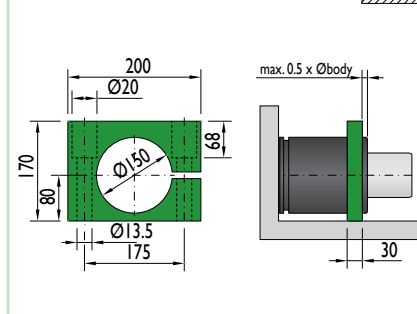
### PR-7500



### CS-7500

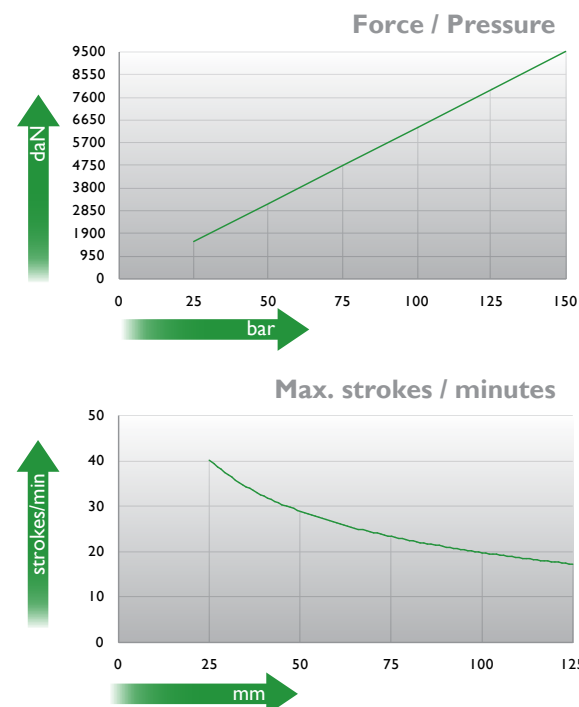
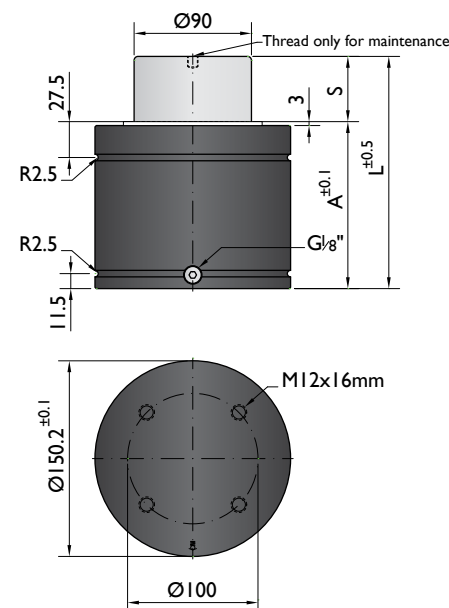


### CF-7500



Flange must not support spring's force

Flange must not support spring's force



Ordering example: 4 x NT-9500-125

| Order No.   | S <sup>(1)</sup><br>mm | L<br>mm | A<br>mm | F <sub>0</sub> <sup>(2)</sup><br>daN<br>(20°C, 150 bar) | F<br>daN | <sup>(3)</sup> | kg    |
|-------------|------------------------|---------|---------|---------------------------------------------------------|----------|----------------|-------|
| NT-9500-25  | 25                     | 128     | 103     | 9500                                                    | 13200    | No             | 11.60 |
| NT-9500-32  | 32                     | 142     | 110     |                                                         | 13600    | No             | 12.18 |
| NT-9500-38  | 38                     | 154     | 116     |                                                         | 13800    | No             | 12.67 |
| NT-9500-50  | 50                     | 178     | 128     |                                                         | 14200    | No             | 13.66 |
| NT-9500-63  | 63                     | 204     | 141     |                                                         | 17400    | No             | 14.73 |
| NT-9500-75  | 75                     | 228     | 153     |                                                         | 17300    | No             | 15.72 |
| NT-9500-80  | 80                     | 238     | 158     |                                                         | 17300    | No             | 14.14 |
| NT-9500-100 | 100                    | 278     | 178     |                                                         | 17200    | No             | 17.78 |
| NT-9500-125 | 125                    | 328     | 203     |                                                         | 17100    | No             | 19.85 |

<sup>(1)</sup> other strokes under request

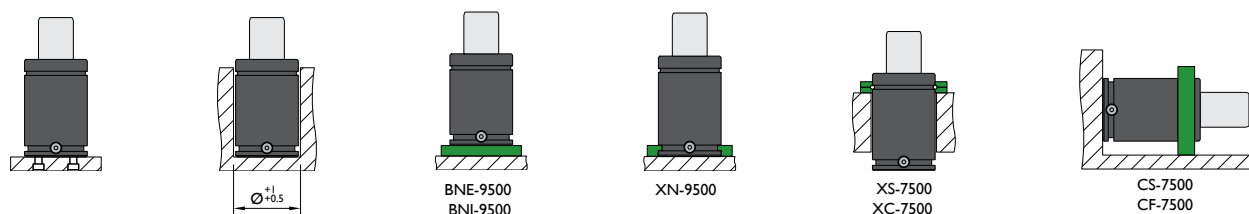
<sup>(2)</sup> alternative forces upon request

<sup>(3)</sup> ESK available for other strokes



|                        |                |                                    |           |                      |             |
|------------------------|----------------|------------------------------------|-----------|----------------------|-------------|
| Pressure medium        | N <sub>2</sub> | Working temperature                | 0-80°C    | Min. security stroke | 10%         |
| Max. Charging pressure | 150 bar        | Temperature related force increase | +0.34%/°C | Repair Kit           | KIT NT-9500 |
| Min. Charging pressure | 25 bar         | Max. working speed                 | 1.6 m/s   | Linkable             | G1/8"       |

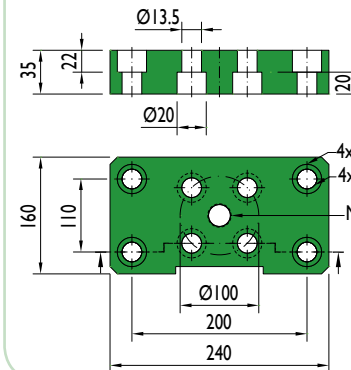
## Mounting possibilities



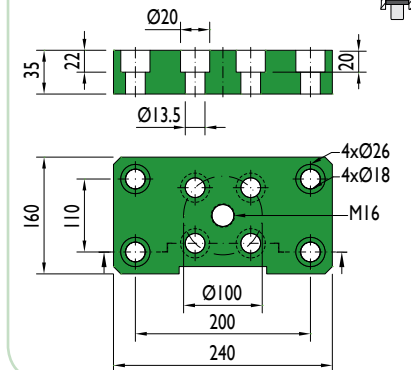
Flange must not support spring's force

## Flanges

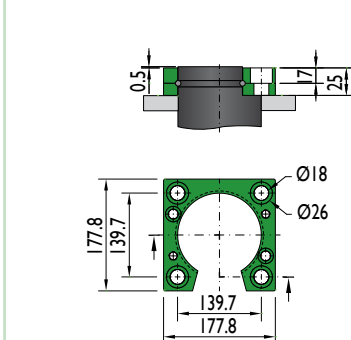
### BNE-9500



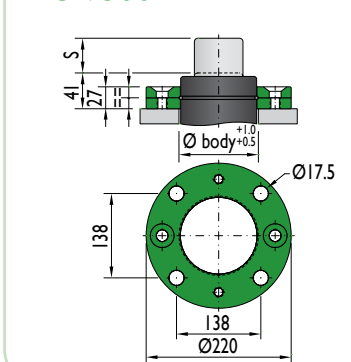
### BNI-9500



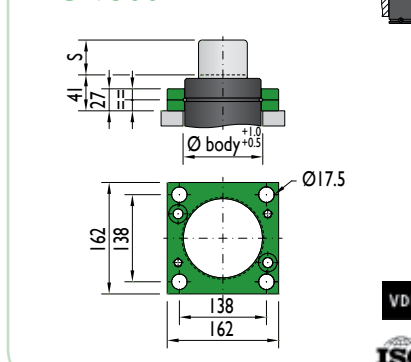
### XN-9500



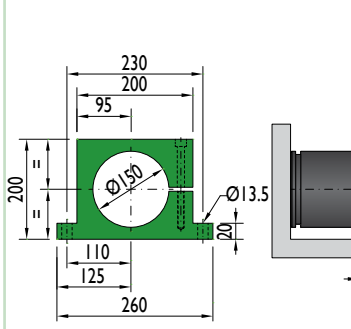
### XS-7500



### XC-7500

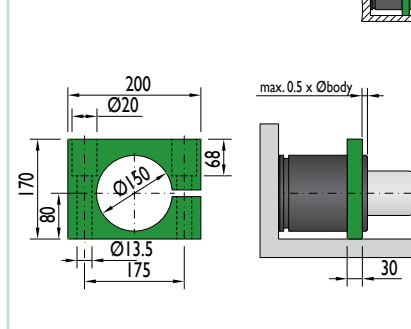


### CS-7500



Flange must not support spring's force

### CF-7500

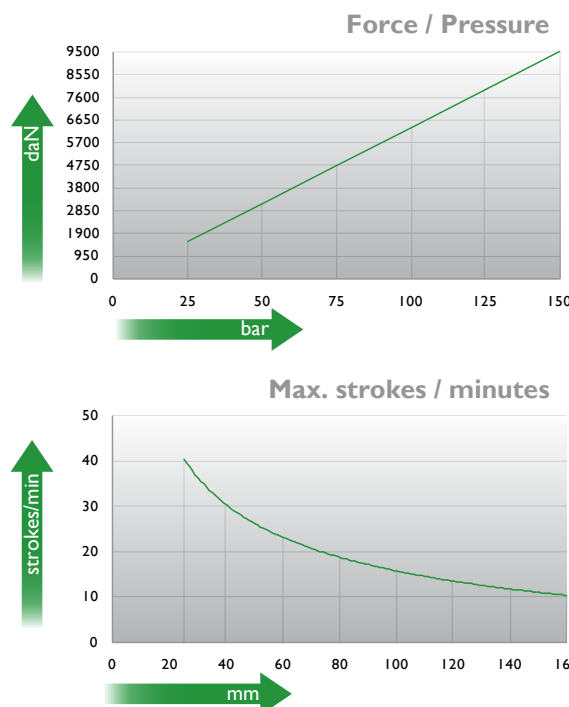
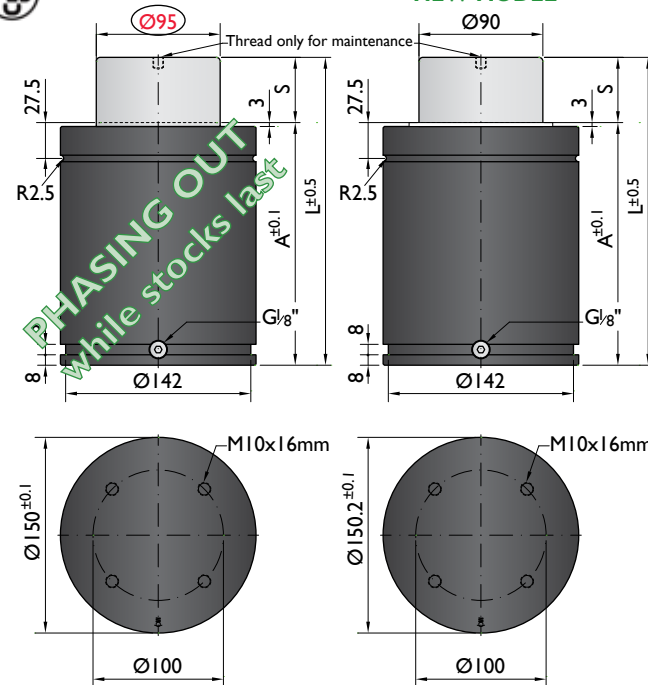


Flange must not support spring's force



\*The new cylinder will be supplied when the stock runs out.

NEW MODEL\*



Ordering example: 4 x G-10000-125

| Order No.   | S <sup>(1)</sup><br>mm | L<br>mm | A<br>mm | F <sub>0</sub> <sup>(2)</sup><br>daN<br>(20°C, 150 bar) | F<br>daN | (3) | kg    |
|-------------|------------------------|---------|---------|---------------------------------------------------------|----------|-----|-------|
| G-10000-25  | 25                     | 186     | 161     | 9500                                                    | 12400    | No  | 16.63 |
| G-10000-38  | 38                     | 212     | 174     |                                                         | 13100    | No  | 17.48 |
| G-10000-50  | 50                     | 236     | 186     |                                                         | 13550    | No  | 18.28 |
| G-10000-63  | 63                     | 262     | 199     |                                                         | 14000    | No  | 19.15 |
| G-10000-80  | 80                     | 296     | 216     |                                                         | 14230    | No  | 20.28 |
| G-10000-100 | 100                    | 336     | 236     |                                                         | 15200    | No  | 22.55 |
| G-10000-125 | 125                    | 386     | 261     |                                                         | 15400    | No  | 24.22 |
| G-10000-160 | 160                    | 456     | 296     |                                                         | 15500    | No  | 26.55 |

(1) other strokes under request

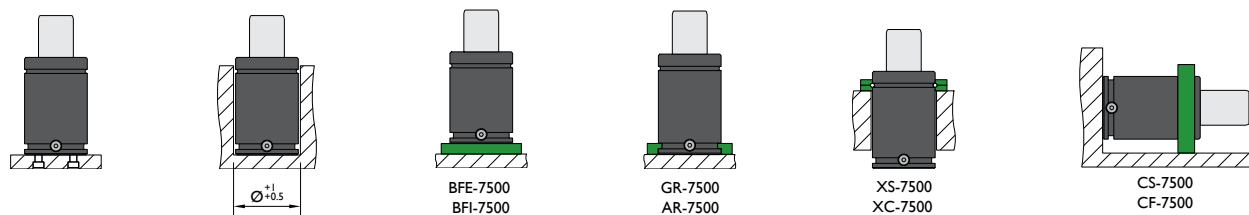
(2) alternative forces upon request

(3) ESK available for other strokes



|                        |                |                                    |           |                      |             |
|------------------------|----------------|------------------------------------|-----------|----------------------|-------------|
| Pressure medium        | N <sub>2</sub> | Working temperature                | 0-80°C    | Min. security stroke | 10%         |
| Max. Charging pressure | 150 bar        | Temperature related force increase | +0.34%/°C | Repair Kit           | KIT G-10000 |
| Min. Charging pressure | 25 bar         | Max. working speed                 | 1.6 m/s   | Linkable             | G1/8"       |

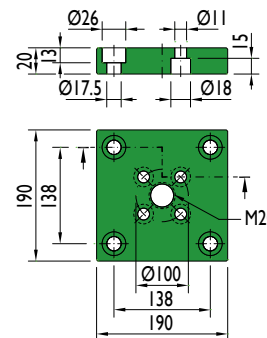
## Mounting possibilities



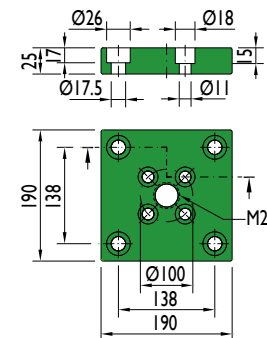
Flange must not support spring's force

## Flanges

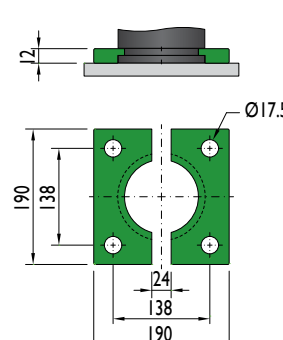
### BFE-7500



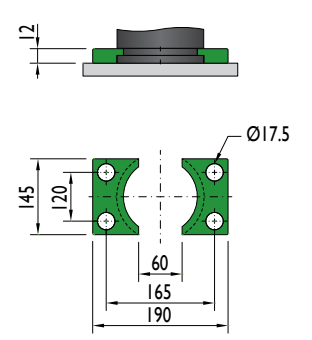
### BFI-7500



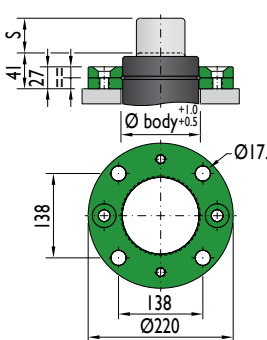
### GR-7500



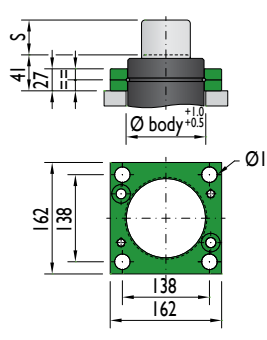
### AR-7500



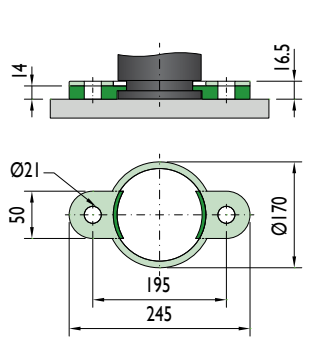
### XS-7500



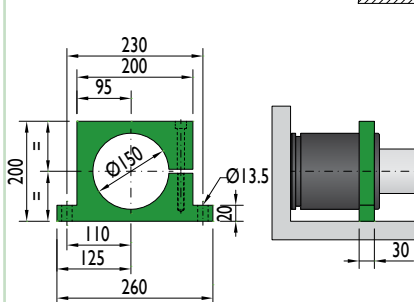
### XC-7500



### PR-7500



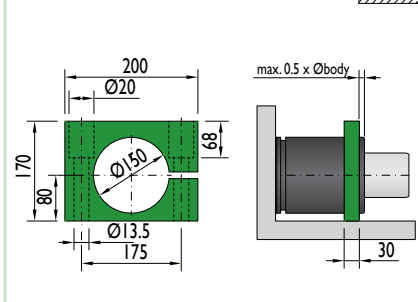
### CS-7500



Flange must not support spring's force

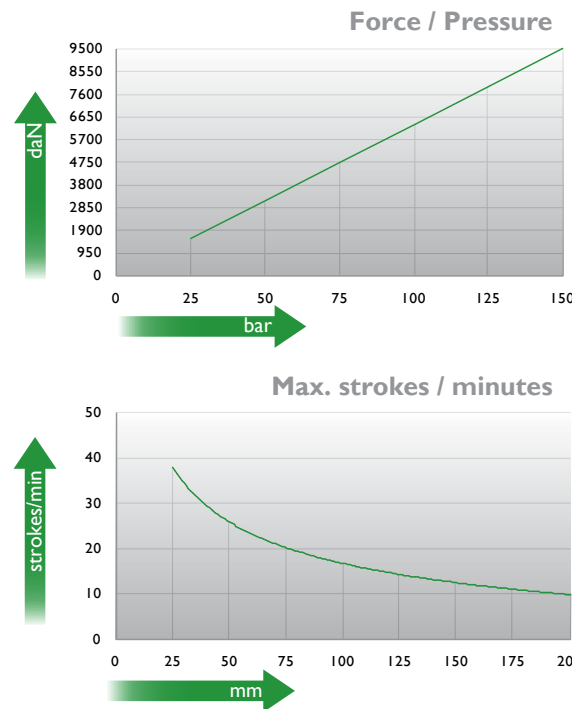
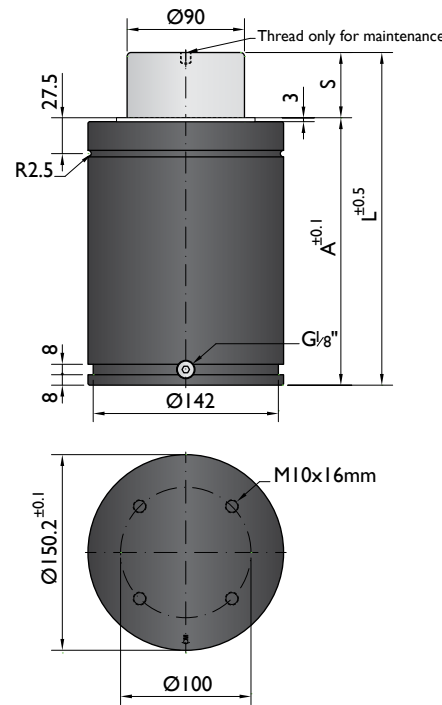


### CF-7500



Flange must not support spring's force





Ordering example: 4 x HD-9500-200

| Order No.   | S <sup>(1)</sup><br>mm | L<br>mm | A<br>mm | F <sub>0</sub> <sup>(2)</sup><br>daN<br>(20°C, 150 bar) | F<br>daN | <sup>(3)</sup> | kg    |
|-------------|------------------------|---------|---------|---------------------------------------------------------|----------|----------------|-------|
| HD-9500-25  | 25                     | 205     | 180     | 9500                                                    | 11700    | No             | 17.96 |
| HD-9500-38  | 38                     | 231     | 193     |                                                         | 12400    | No             | 18.95 |
| HD-9500-50  | 50                     | 255     | 205     |                                                         | 12900    | No             | 20.62 |
| HD-9500-63  | 63                     | 281     | 218     |                                                         | 13300    | No             | 21.60 |
| HD-9500-80  | 80                     | 315     | 235     |                                                         | 13800    | No             | 22.88 |
| HD-9500-100 | 100                    | 355     | 255     |                                                         | 15100    | No             | 24.84 |
| HD-9500-125 | 125                    | 405     | 280     |                                                         | 15400    | No             | 26.74 |
| HD-9500-160 | 160                    | 475     | 315     |                                                         | 15800    | Yes            | 29.37 |
| HD-9500-200 | 200                    | 555     | 355     |                                                         | 16000    | Yes            | 32.38 |
| HD-9500-250 | 250                    | 655     | 405     |                                                         | 16300    | Yes            | 35.63 |
| HD-9500-300 | 300                    | 755     | 455     |                                                         | 16500    | Yes            | 38.87 |

<sup>(1)</sup> other strokes under request

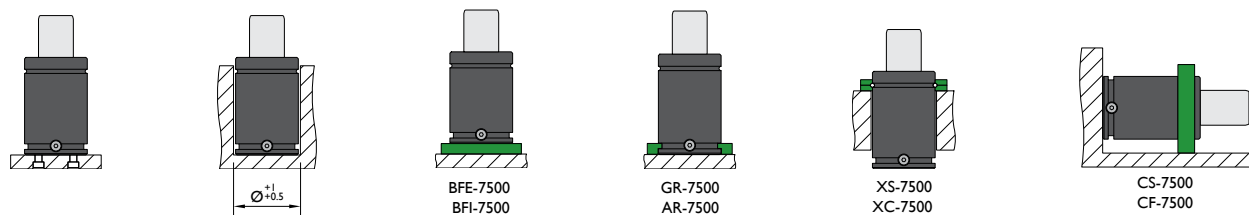
<sup>(2)</sup> alternative forces upon request

<sup>(3)</sup> ESK available for other strokes



|                        |                |                                    |           |                      |             |
|------------------------|----------------|------------------------------------|-----------|----------------------|-------------|
| Pressure medium        | N <sub>2</sub> | Working temperature                | 0-80°C    | Min. security stroke | 10%         |
| Max. Charging pressure | 150 bar        | Temperature related force increase | +0.34%/°C | Repair Kit           | KIT HD-9500 |
| Min. Charging pressure | 25 bar         | Max. working speed                 | 1.6 m/s   | Linkable             | G1/8"       |

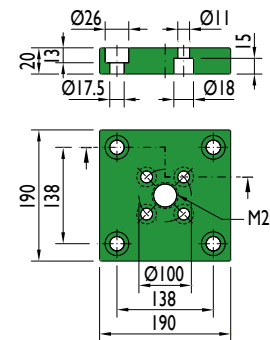
## Mounting possibilities



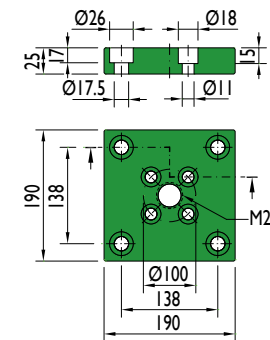
Flange must not support spring's force

## Flanges

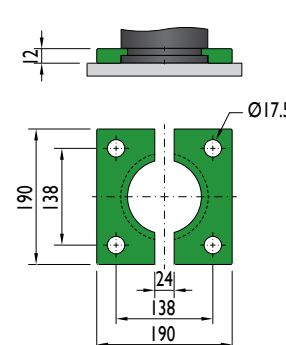
### BFE-7500



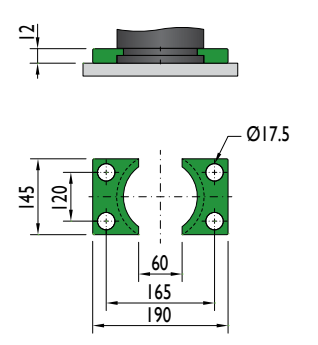
### BFI-7500



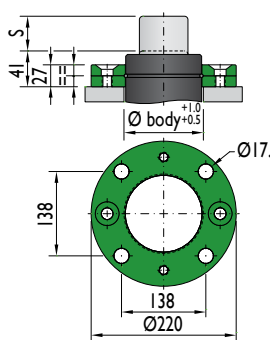
### GR-7500



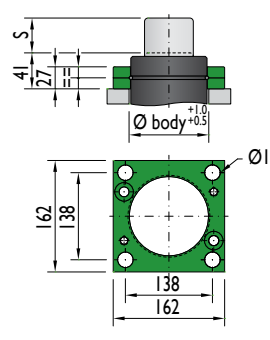
### AR-7500



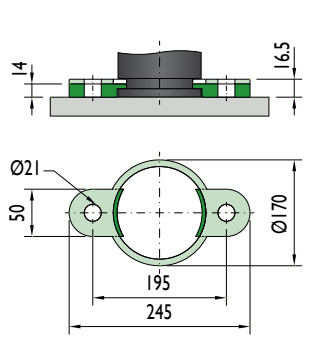
### XS-7500



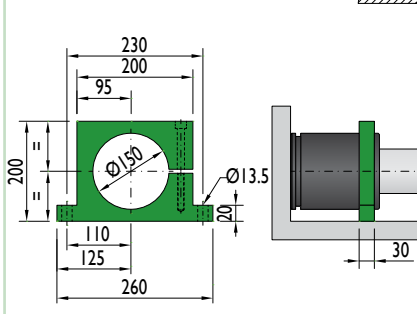
### XC-7500



### PR-7500

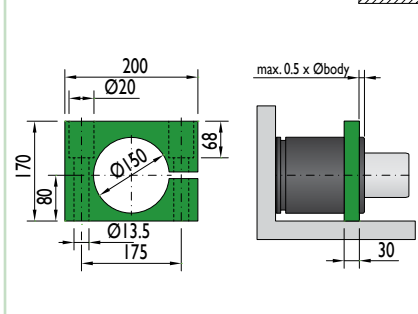


### CS-7500



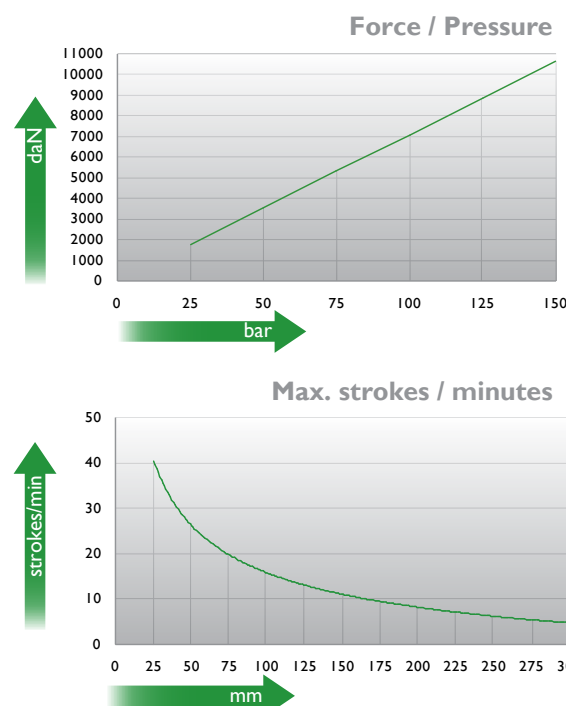
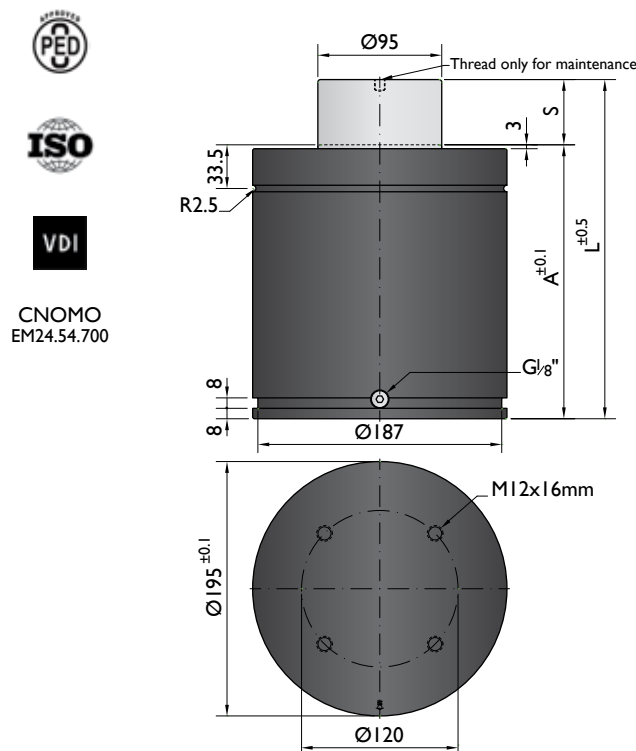
Flange must not support spring's force

### CF-7500



Flange must not support spring's force





Ordering example: 4 x CN-10000-200

| Order No.    | S <sup>(1)</sup><br>mm | L<br>mm | A<br>mm | F <sub>0</sub> <sup>(2)</sup><br>daN<br>(20°C, 150 bar) | F<br>daN | <sup>(3)</sup> | kg    |
|--------------|------------------------|---------|---------|---------------------------------------------------------|----------|----------------|-------|
| CN-10000-25  | 25                     | 210     | 185     | 10600                                                   | 13000    | No             | 32.40 |
| CN-10000-38  | 38.1                   | 236.2   | 198.1   |                                                         | 13500    | No             | 34.30 |
| CN-10000-50  | 50                     | 260     | 210     |                                                         | 13800    | No             | 36.20 |
| CN-10000-63  | 63.5                   | 287     | 223.5   |                                                         | 14000    | No             | 38.10 |
| CN-10000-80  | 80                     | 320     | 240     |                                                         | 14200    | No             | 40.70 |
| CN-10000-100 | 100                    | 360     | 260     |                                                         | 14400    | No             | 43.80 |
| CN-10000-125 | 125                    | 410     | 285     |                                                         | 14800    | No             | 47.60 |
| CN-10000-160 | 160                    | 480     | 320     |                                                         | 14900    | Yes            | 52.90 |
| CN-10000-200 | 200                    | 560     | 360     |                                                         | 15200    | Yes            | 59.10 |
| CN-10000-250 | 250                    | 660     | 410     |                                                         | 15200    | Yes            | 66.60 |
| CN-10000-300 | 300                    | 760     | 460     |                                                         | 15200    | Yes            | 74.20 |

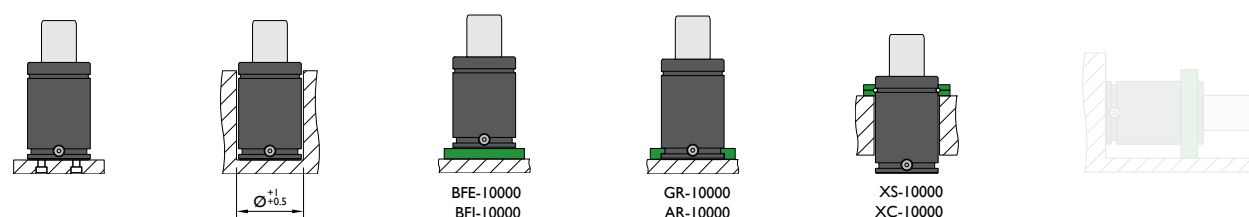
<sup>(1)</sup> other strokes under request

<sup>(2)</sup> alternative forces upon request

<sup>(3)</sup> ESK available for other strokes

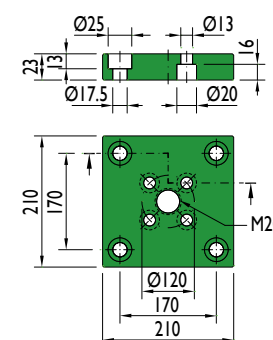
|  |                        |                |                                    |           |                      |              |
|--|------------------------|----------------|------------------------------------|-----------|----------------------|--------------|
|  | Pressure medium        | N <sub>2</sub> | Working temperature                | 0-80°C    | Min. security stroke | 10%          |
|  | Max. Charging pressure | 150 bar        | Temperature related force increase | +0.34%/°C | Repair Kit           | KIT CN-10000 |
|  | Min. Charging pressure | 25 bar         | Max. working speed                 | 1.6 m/s   | Linkable             | G1/8"        |

## Mounting possibilities

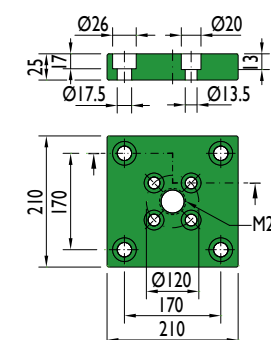


## Flanges

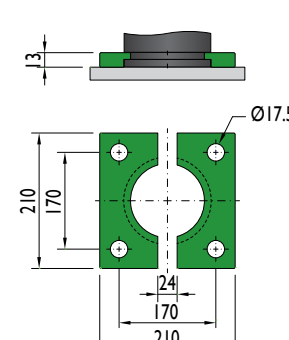
### BFE-10000



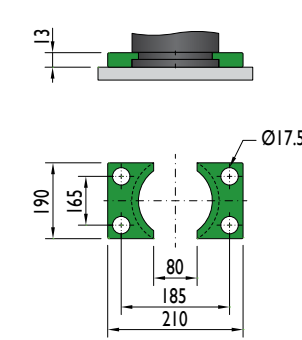
### BFI-10000



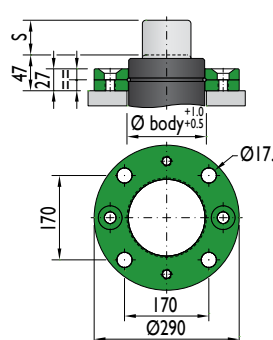
### GR-10000



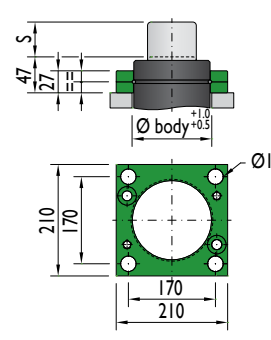
### AR-10000

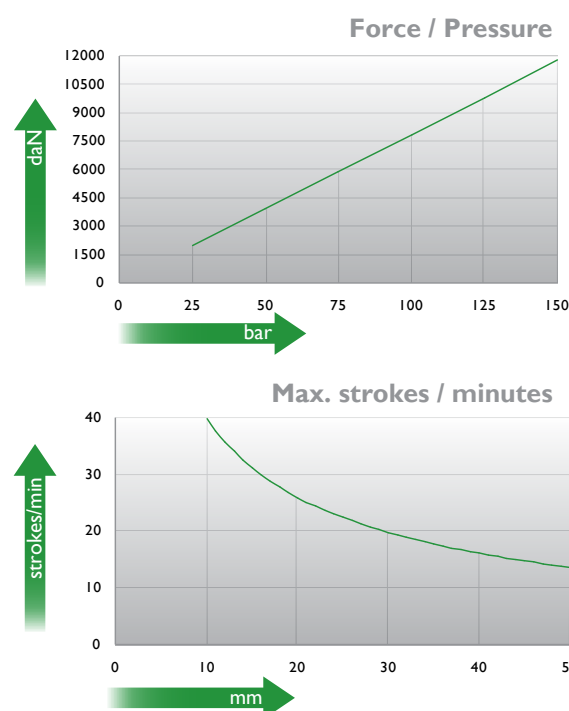
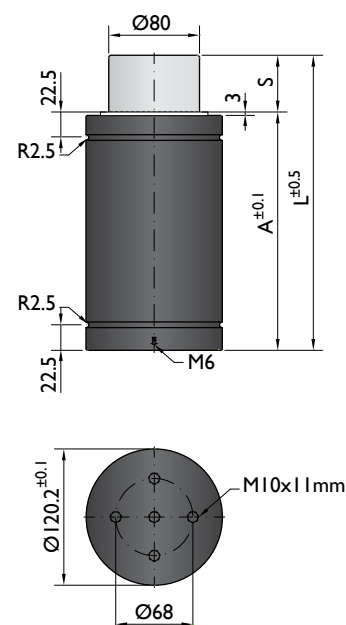


### XS-10000



### XC-10000





| Order No.   | S <sup>(1)</sup><br>mm | L<br>mm | A<br>mm | F <sub>0</sub> <sup>(2)</sup><br>daN<br>(20°C, 150 bar) | F<br>daN | <sup>(3)</sup> | kg    |
|-------------|------------------------|---------|---------|---------------------------------------------------------|----------|----------------|-------|
| TS-11800-10 | 10                     | 100     | 90      | 11800                                                   | 15500    | No             | 4.60  |
| TS-11800-16 | 16                     | 126     | 110     |                                                         | 15700    | No             | 5.74  |
| TS-11800-25 | 25                     | 155     | 130     |                                                         | 16600    | No             | 6.48  |
| TS-11800-32 | 32                     | 187     | 155     |                                                         | 16600    | No             | 7.30  |
| TS-11800-40 | 40                     | 220     | 180     |                                                         | 16600    | No             | 8.14  |
| TS-11800-50 | 50                     | 260     | 210     |                                                         | 16600    | No             | 9.16  |
| TS-11800-65 | 65                     | 320     | 255     |                                                         | 16600    | No             | 10.14 |

<sup>(1)</sup> other strokes under request

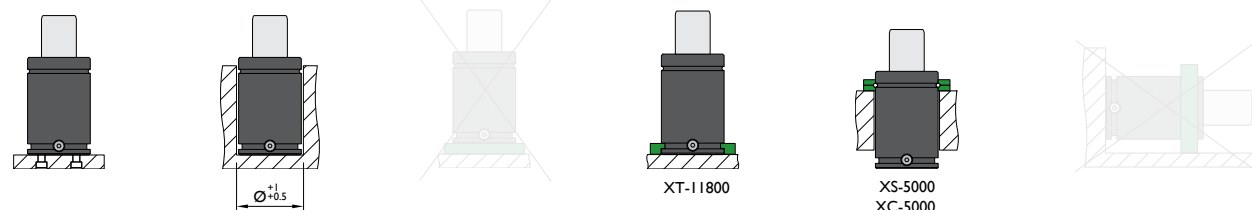
<sup>(2)</sup> alternative forces upon request

<sup>(3)</sup> ESK under request



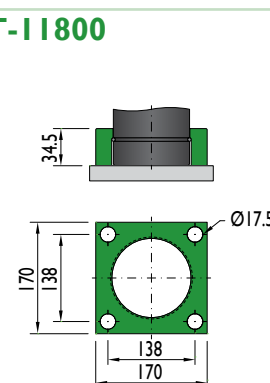
|                        |                |                                    |           |                      |              |
|------------------------|----------------|------------------------------------|-----------|----------------------|--------------|
| Pressure medium        | N <sub>2</sub> | Working temperature                | 0-80°C    | Min. security stroke | 10%          |
| Max. Charging pressure | 150 bar        | Temperature related force increase | +0.34%/°C | Repair Kit           | KIT TS-11800 |
| Min. Charging pressure | 25 bar         | Max. working speed                 | 0.5 m/s   | Linkable             |              |

## Mounting possibilities

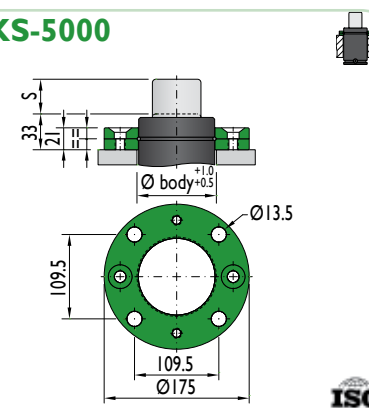


## Flanges

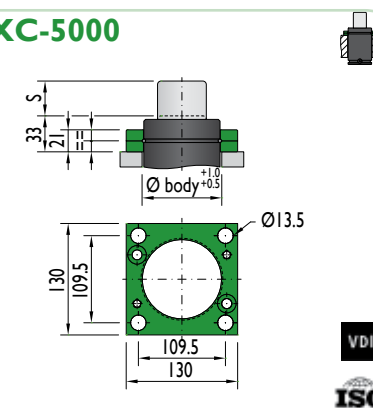
### XT-11800

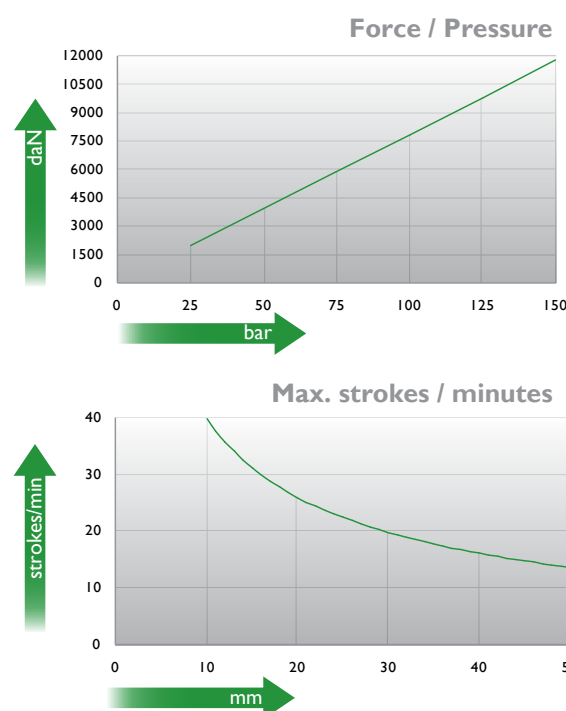
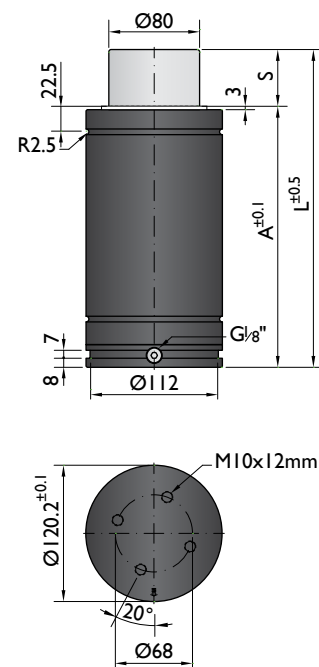


### XS-5000



### XC-5000





Ordering example: 4 x TSC-I 1800-50

| Order No.     | S <sup>(1)</sup><br>mm | L<br>mm | A<br>mm | F <sub>0</sub> <sup>(2)</sup><br>daN<br>(20°C, 150 bar) | F<br>daN | <sup>(3)</sup><br>kg |
|---------------|------------------------|---------|---------|---------------------------------------------------------|----------|----------------------|
| TSC-I 1800-10 | 10                     | 120     | 110     | 11800                                                   | 15500    | 6.16                 |
| TSC-I 1800-16 | 16                     | 146     | 130     |                                                         | 15700    | 7.30                 |
| TSC-I 1800-25 | 25                     | 175     | 150     |                                                         | 16600    | 8.04                 |
| TSC-I 1800-32 | 32                     | 207     | 175     |                                                         | 16600    | 8.80                 |
| TSC-I 1800-40 | 40                     | 240     | 200     |                                                         | 16600    | 9.70                 |
| TSC-I 1800-50 | 50                     | 280     | 230     |                                                         | 16600    | 10.72                |
| TSC-I 1800-65 | 65                     | 340     | 275     |                                                         | 16600    | 11.70                |

other strokes <sup>(1)</sup> under request

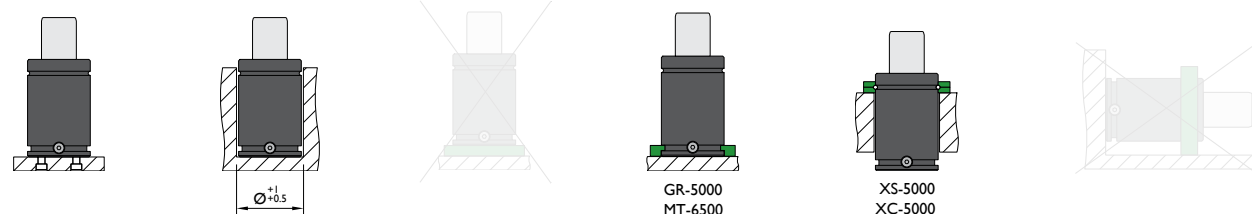
alternative forces upon request <sup>(2)</sup>

ESK under request <sup>(3)</sup>



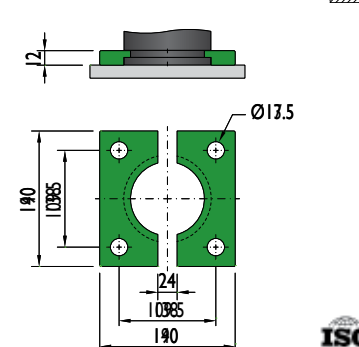
|                        |                |                                    |           |                      |                |
|------------------------|----------------|------------------------------------|-----------|----------------------|----------------|
| Pressure medium        | N <sub>2</sub> | Working temperature                | 0-80°C    | Min. security stroke | 10%            |
| Max. Charging pressure | 150 bar        | Temperature related force increase | +0.34%/°C | Repair Kit           | KIT TSC-I 1800 |
| Min. Charging pressure | 25 bar         | Max. working speed                 | 0.5 m/s   | Linkable             | G1/8"          |

## Mounting possibilities

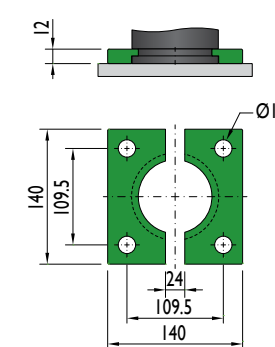


## Flanges

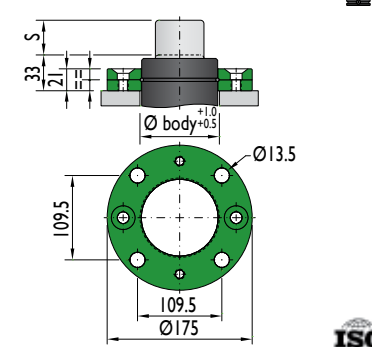
### GR-5000



### MT-6500



### XS-500



### XC-5000

