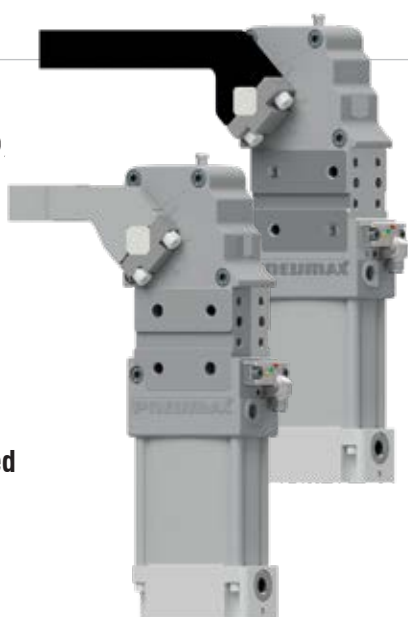


## C3 and C4-Series

### New integrated hold open device

It securely holds the clamp in its open position in case of air loss

INTERNATIONAL  
**MOUNT**



**Patented**

The new integrated hold open device is a reliable solution even for applications with considerable **axial load** on the **clamping arm**.

It allows for a smooth and controlled restart of the cycle.

#### Compact overall dimensions.

Available for all clamps' mountings (logo International mount and logo NAAMS). Protection against external impacts, dust and welding debris.

### Technical features

**Manual release button** to open the linkage when air pressure is removed during setup. **Pneumatic ports on both sides** of the cylinder.

#### Operating features

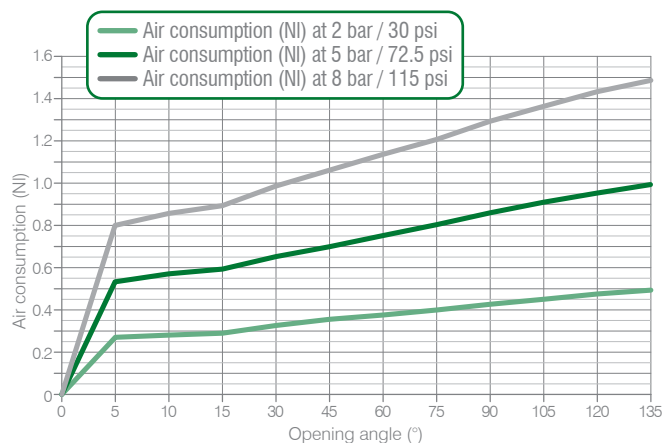
<b>Operating pressure</b>	from 2 to 8 bar / from 30 to 115 psi
<b>Lubrication</b>	all the devices are lubricated for life at the factory. Inline air lubrication isn't required
<b>High retention</b>	make sure to supply air to the opposite side of the cylinder before switching the valve

### Functional charts

#### Size 40 mm

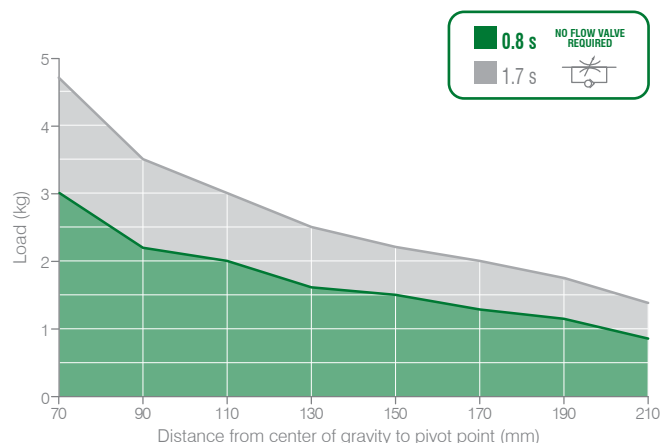
##### • Air consumption

Air consumption for complete cycle (opening and closing)  
REV. 00 - 17/06/2015



##### • Tooling weight chart

5 bar operating pressure – 135° opening angle  
REV. 00 - 17/06/2015



##### • Clamping moment (at 5 bar / 72.5 psi)

**130 N m / 95,88 lb-ft**

##### • Holding moment

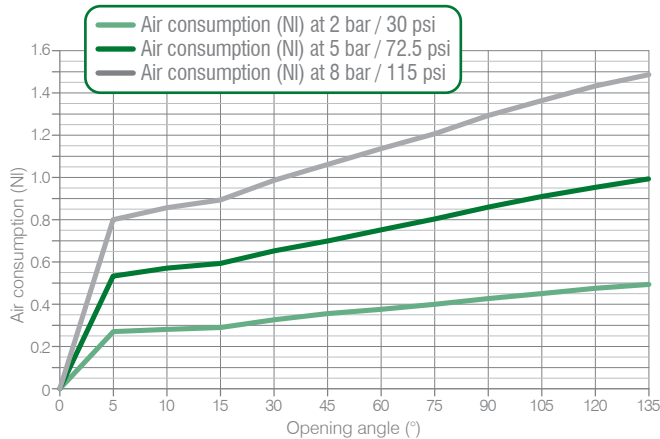
**380 N m / 280,27 lb-ft**

The above data are meant for correct working conditions of the clamp with the same performance level during its life time. For applications which exceed the above data, please contact our sales representatives.

## Series 45 - size 40 interchangeable to size 50 and 63 mm

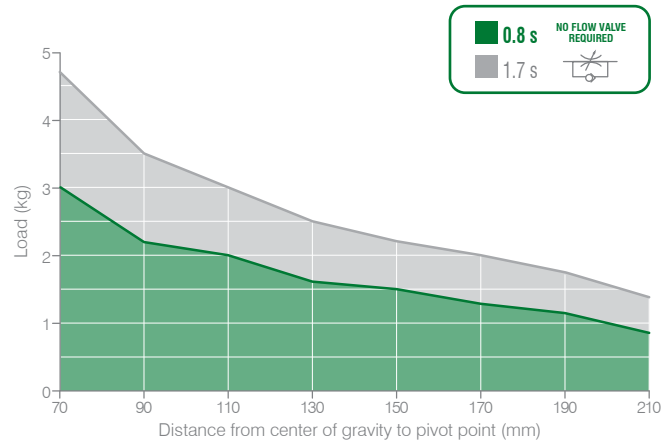
### • Air consumption

Air consumption for complete cycle (opening and closing)  
REV. 00 - 16/06/2015



### • Tooling weight chart

5 bar operating pressure – 135° opening angle  
REV. 00 - 16/06/2015



### • Clamping moment (at 5 bar / 72.5 psi)

**130 N m / 95,88 lb·ft**

### • Holding moment

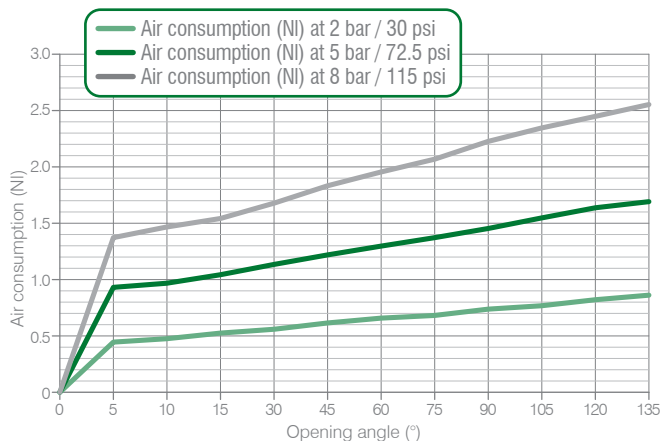
**380 N m / 280,25 lb·ft**

The above data are meant for correct working conditions of the clamp with the same performance level during its life time.  
For applications which exceed the above data, please contact our sales representatives.

## Size 50 mm

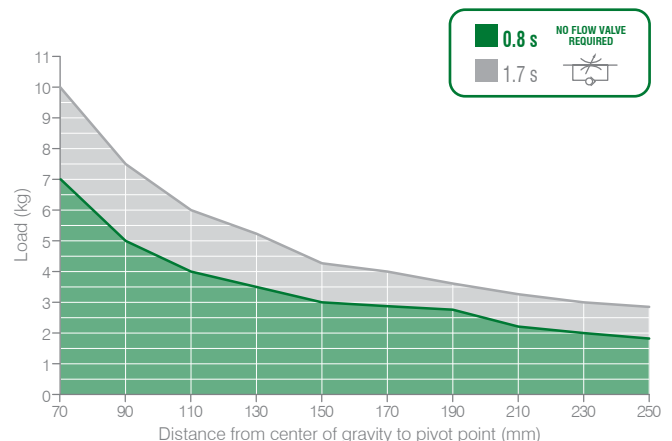
### • Air consumption

Air consumption for complete cycle (opening and closing)  
REV. 00 - 16/06/2015



### • Tooling weight chart

5 bar operating pressure – 135° opening angle  
REV. 00 - 16/06/2015



### • Clamping moment (at 5 bar / 72.5 psi)

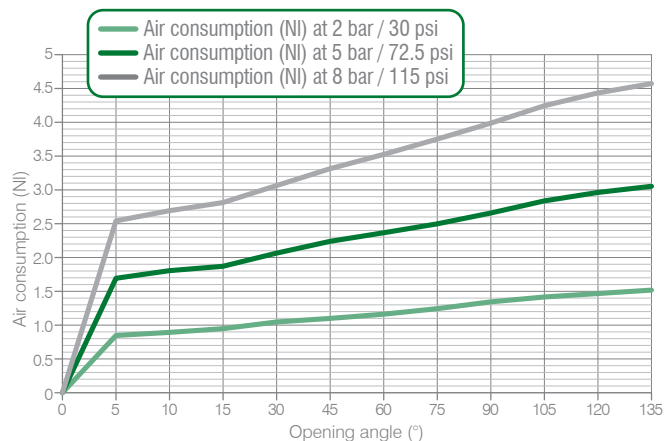
**185 N m / 136,44 lb·ft**

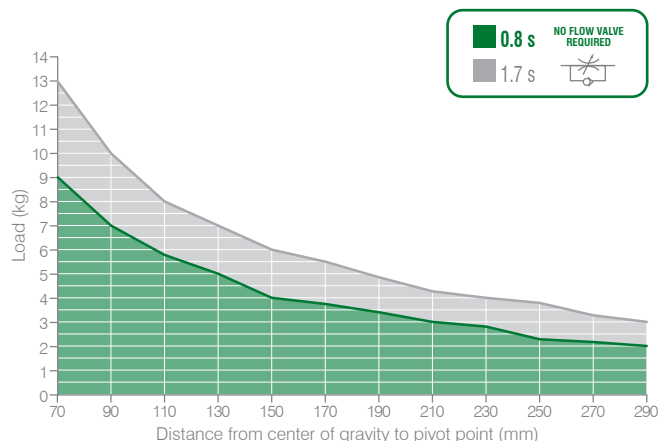
### • Holding moment

**800 N m / 590,04 lb·ft**

The above data are meant for correct working conditions of the clamp with the same performance level during its life time.  
For applications which exceed the above data, please contact our sales representatives.

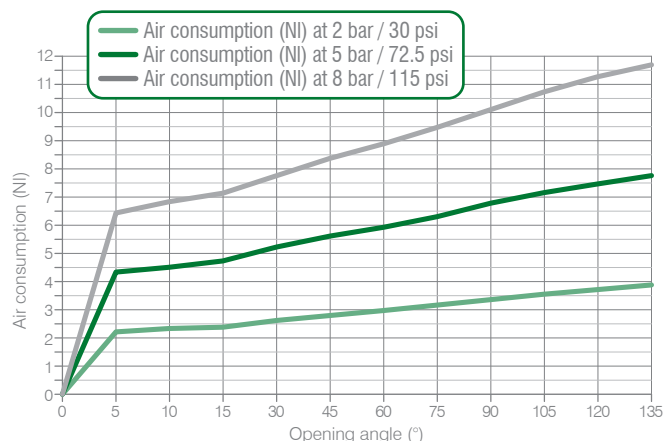
**C3 and C4-Series / Functional charts (continued)**
**Size 63 mm**
**• Air consumption**

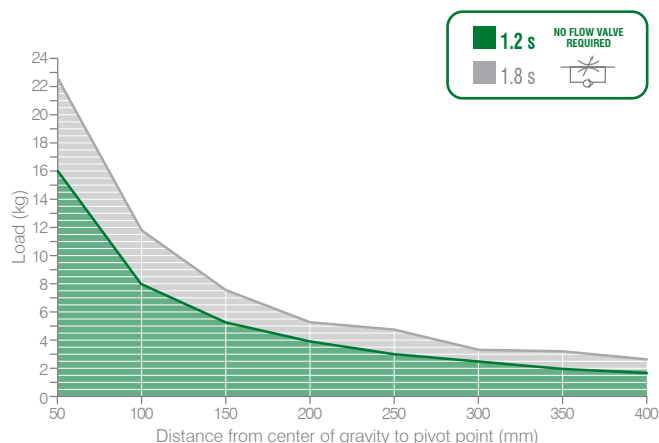
 Air consumption for complete cycle (opening and closing)  
REV. 00 - 17/06/2015

**• Tooling weight chart**

 5 bar operating pressure – 135° opening angle  
REV. 00 - 17/06/2015

**• Clamping moment (at 5 bar / 72.5 psi)**
**390 N m / 287,64 lb·ft**
**• Holding moment**
**1.500 N m / 1.106,34 lb·ft**

The above data are meant for correct working conditions of the clamp with the same performance level during its life time.  
For applications which exceed the above data, please contact our sales representatives.

**Size 80 mm**
**• Air consumption**

 Air consumption for complete cycle (opening and closing)  
REV. 00 - 29/05/2015

**• Tooling weight chart**

 5 bar operating pressure – 135° opening angle  
REV. 00 - 29/05/2016

**• Clamping moment (at 5 bar / 72.5 psi)**
**850 N m / 626,92 lb·ft**
**• Holding moment**
**2.500 N m / 1.843,90 lb·ft**





The above data are meant for correct working conditions of the clamp with the same performance level during its life time.  
For applications which exceed the above data, please contact our sales representatives.

## C3 and C4-Series / Ordering string

Please see the charts in the datasheets for arm position as well as for max. opening angle

## C3-Series

C 3 P 40 E G 4 A 01

C	VERSION	C = clamp
3	MOUNTING PATTERN	3 = International mount with integrated hold-open device
P	OPERATION	P = pneumatic
40	SIZE	40 = Ø 40 mm 45 = Ø 40 mm with interchangeable to size 50 and 63 mm 50 = Ø 50 mm 63 = Ø 63 mm 80 = Ø 80 mm
E	SENSOR	E = electronic sensor with M12 swivel connector - PNP A = electronic sensor with M12 swivel connector - NPN N = no sensor B = electronic sensor with M8 swivel connector - PNP
G	PORTS	G = G thread – BSPP N = NPT
4	ARM MOUNT	1 =  2 =  3 =  4 = 
A	ARM MATERIAL	A = aluminum S = steel
01	CLAMP ARM TYPE	01 = wishbone, central, 15 mm offset* 02 = wishbone, right, 15 mm offset* 03 = wishbone, left, 15 mm offset* 04 = wishbone, central, 45 mm offset 05 = wishbone, right, 45 mm offset 06 = wishbone, left, 45 mm offset

\* for size 80 mm = 20 mm offset

## C4-Series

C 4 P 50 E N L

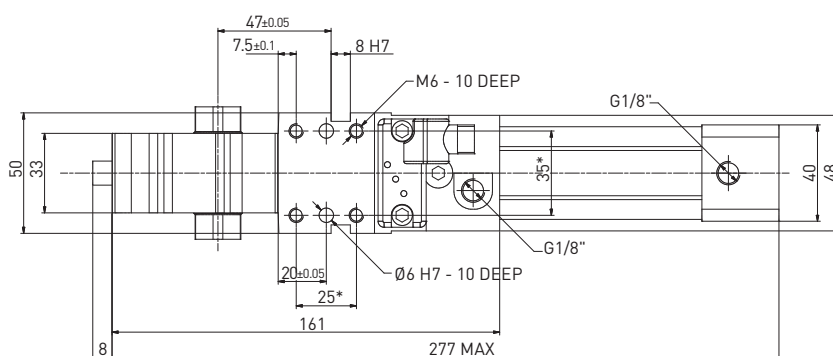
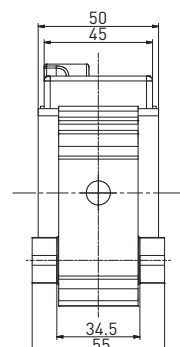
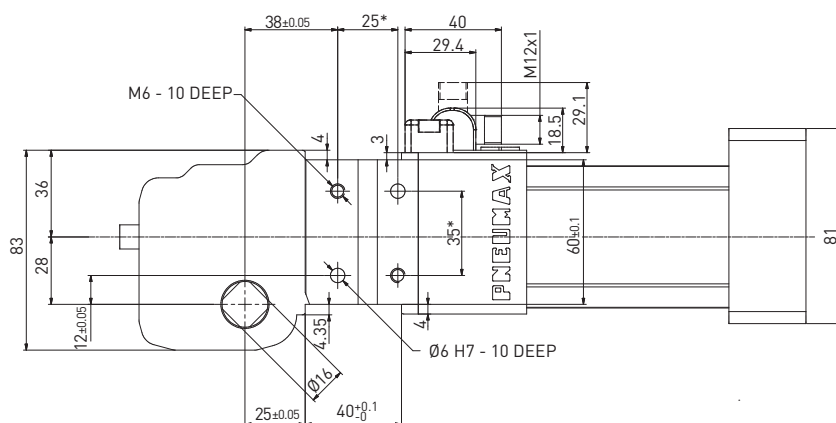
C	VERSION	C = clamp
4	MOUNTING PATTERN	4 = NAAMS Standard with integrated hold-open device
P	OPERATION	P = pneumatic
50	SIZE	50 = Ø 50 mm 63 = Ø 63 mm 80 = Ø 80 mm
E	SENSOR	E = electronic sensor with M12 swivel connector - PNP A = electronic sensor with M12 swivel connector - NPN N = no sensor B = electronic sensor with M8 swivel connector - PNP
N	PORTS	G = G thread – BSPP N = NPT
L	SHAFT OUTPUT	= dual output L = single output - LEFT R = single output - RIGHT

 GLOBAL STANDARD COMPONENTS  
**NAAMS** 

 NAAMS clamping arms to be ordered separately  
 Please see the charts in the datasheets  
 for arm position as well as for max. opening angle

### C3P40E / Power clamp - International mount with integrated hold-open device - 40 mm bore

**WEIGHT 3.5 kg**



for clamping arms, please see C1 series

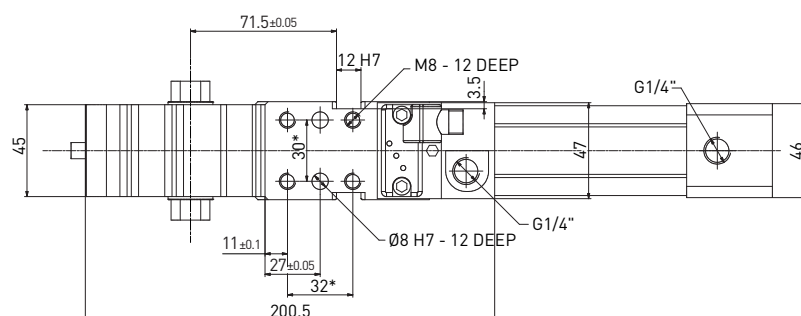
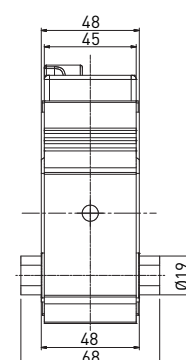
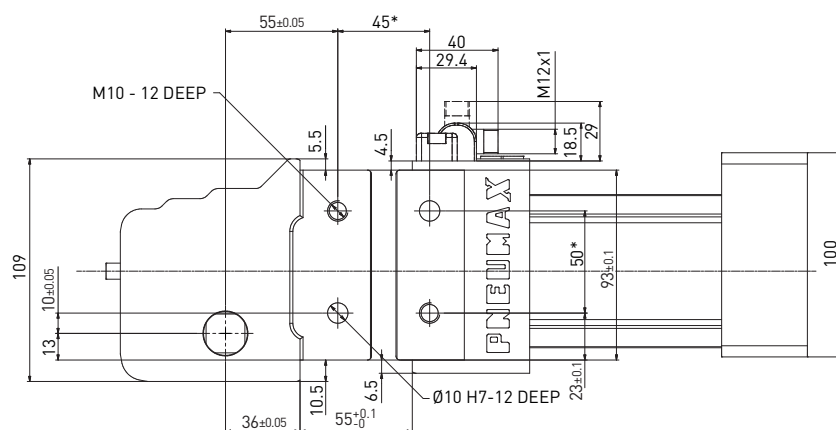
\* DIMENSIONAL TOLERANCE  
FOR DOWEL HOLES:  $\pm 0.02$

DIMENSIONAL TOLERANCE  
FOR THREADED HOLES:  $\pm 0.1$

REV. 00 - 27/07/2022

**C3P50E** / **Power clamp** - International mount with integrated hold-open device - 50 mm bore

**WEIGHT 4 kg**



for clamping arms, please see C1 series

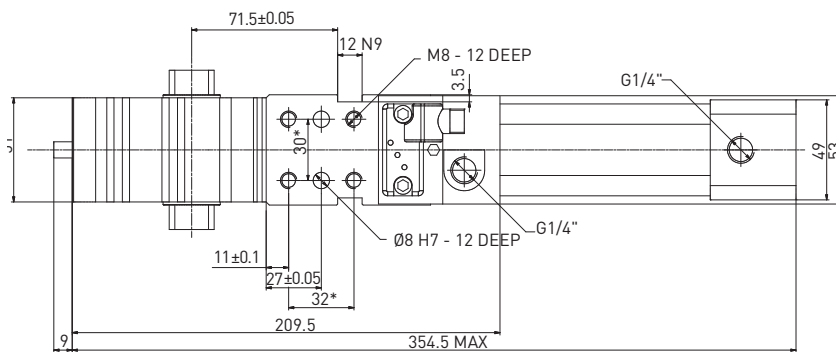
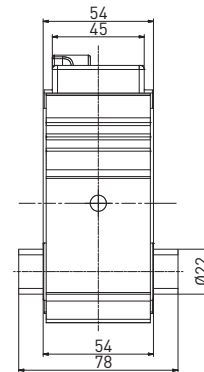
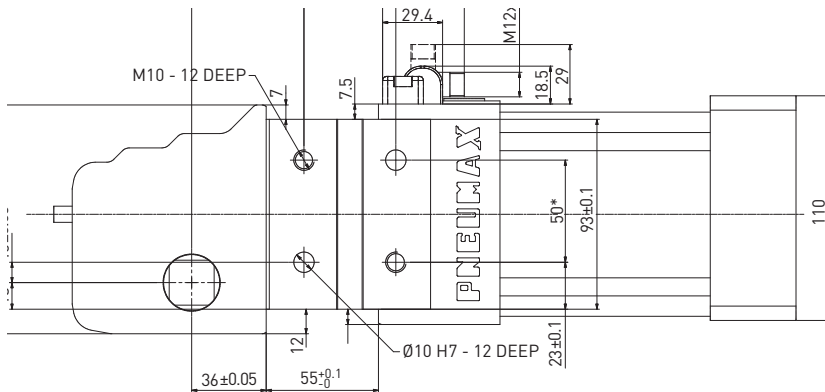
\* DIMENSIONAL TOLERANCE  
FOR DOWEL HOLES:  $\pm 0.02$

DIMENSIONAL TOLERANCE  
FOR THREADED HOLES:  $\pm 0.1$

REV. 00 - 22/07/2022

**C3P63E** / **Power clamp** - International mount with integrated hold-open device - 63 mm bore

**WEIGHT 3.5 kg**



for clamping arms, please see C1 series

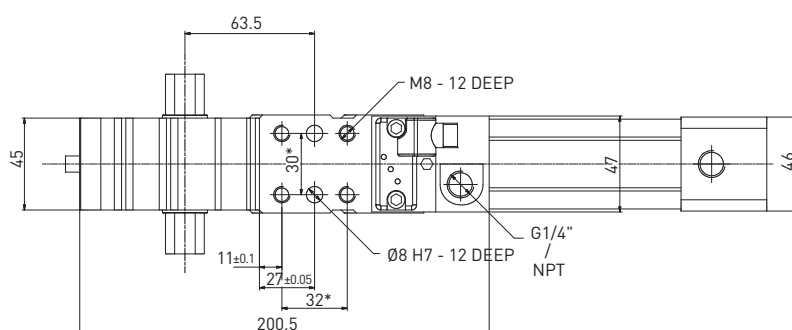
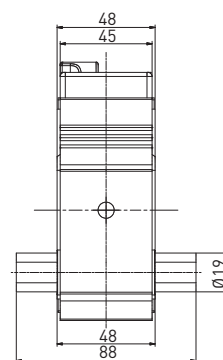
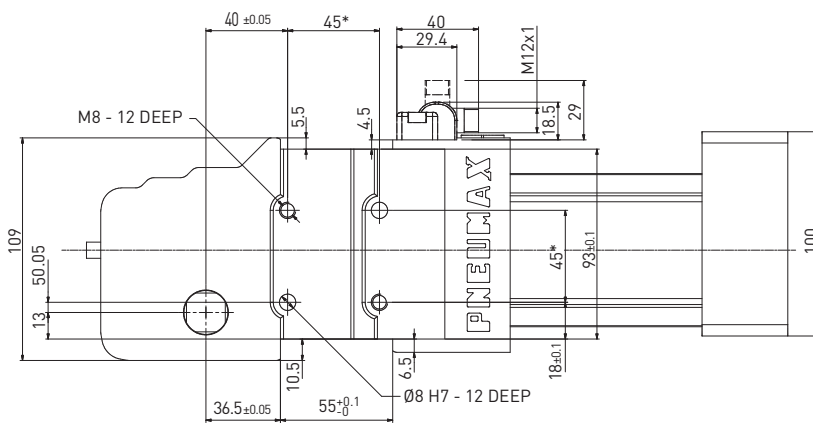
\* DIMENSIONAL TOLERANCE  
FOR DOWEL HOLES:  $\pm 0.02$

DIMENSIONAL TOLERANCE  
FOR THREADED HOLES:  $\pm 0.1$

REV. 00 - 27/07/2022

**C4P50E** / Power clamp - NAAMS Standard with integrated hold-open device - 50 mm bore

**WEIGHT 4 kg**



for clamping arms, please see C2 series

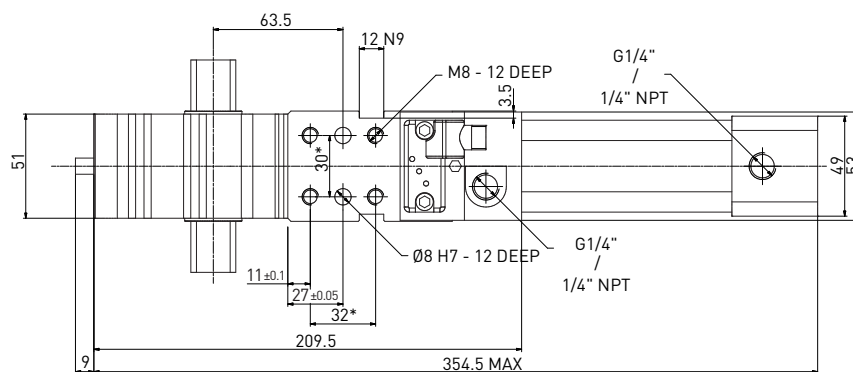
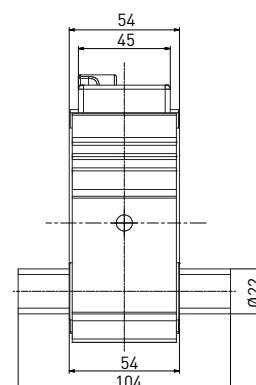
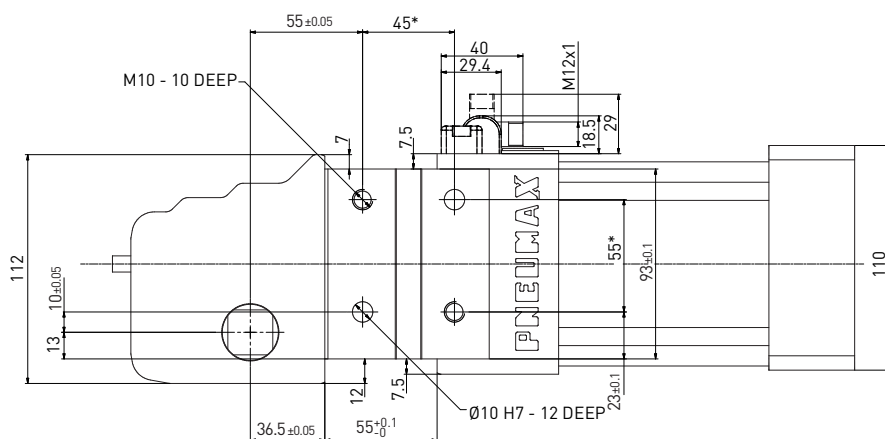
\* DIMENSIONAL TOLERANCE  
FOR DOWEL HOLES:  $\pm 0.02$

DIMENSIONAL TOLERANCE  
FOR THREADED HOLES:  $\pm 0.1$

REV. 00 - 27/07/2022

**C4P63E** / **Power clamp** - NAAMS Standard with integrated hold-open device - 63 mm bore

**WEIGHT 3.5 kg**



for clamping arms, please see C2 series

\* DIMENSIONAL TOLERANCE  
FOR DOWEL HOLES:  $\pm 0.02$

DIMENSIONAL TOLERANCE  
FOR THREADED HOLES:  $\pm 0.1$

REV. 00 - 27/07/2022

## Integrated mechanism

Without air, a spring pushes a steel locking ring in a groove machined in the piston rod termination and prevents it from moving.

On the opposite side, a pneumatic piston, when activated, pushes the steel locking ring and releases the piston.

SINGLE EFFECT

