

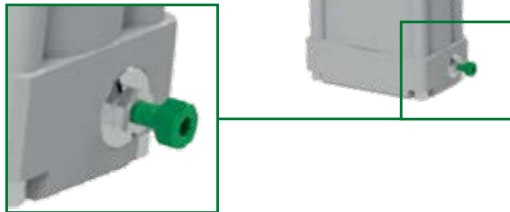
CX-Series

INTERNATIONAL
MOUNT

GLOBAL STANDARD COMPONENTS
NAAMS



Patented



Power clamps for double workpiece identification

International mount - Naams mount

For critical applications, where it is required to identify the unwilling presence of two metal sheets in the process and to avoid their clamping. This built-in device **allows a reliable double workpiece identification.**

The below end cap shows an **adjustment screw**: by loosening the screw, the inlet pressure is adjusted, i.e. reduced to the minimum required to guarantee the **clamping of a single workpiece**, not of two metal sheets. The toggle linkage is therefore prevented from engaging (no toggle lock) and consequently the sensor will not detect the closed position and will signal the anomaly. Once the clamp is properly adjusted from the below end cap screw, to be able to clamp a single workpiece, **it will be able to detect the false condition in case a second workpiece is inadvertently set on the tooling.**

Instructions

The adjustment cannot be performed without air.

- 1 Install the clamp on the fixture by using all 4 screws and dowels. If mounted on the side, use the key slot.
- 2 Check the shimming and make sure that that with 5/ 5.5 bars the clamp is operating smoothly (0.3 or less shimming is optimal).
- 3 Place the workpiece and clamp it. Make sure you get the red led signal for closed position.
- 4 Open the clamp.
- 5 Use, further to the workpiece, a thickness gauge (a feeler or a shim) whose thickness is half the thickness of the workpiece.
- 6 Close the clamp and tighten the screw slightly. Operate the clamp and check if the closed position signal is lost. In this way, the pressure is reduced and the cylinder won't get enough push force to engage the toggle linkage.
- 7 Open and close a few times, then double check with two workpieces and no red led light will be on, in such a condition.
- 8 If ok, tighten the bolt behind the screw to avoid its loosening.



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

Operating pressure from 2 to 8 bar / from 30 to 115 psi

Lubrication all the devices are lubricated for life at the factory. Inline air lubrication isn't required

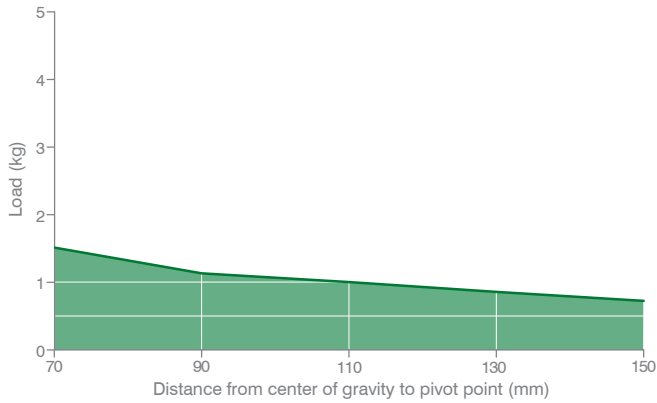


Functional charts

Size 40 mm

- Tooling weight chart**

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



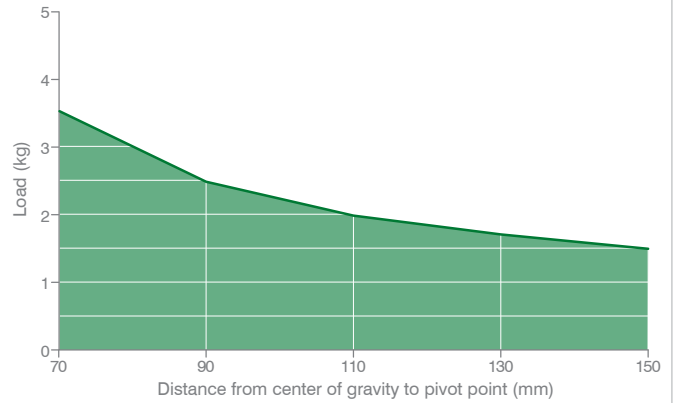
- Holding moment**

380 N m / 280,27 lb-ft

Size 50 mm

- Tooling weight chart**

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



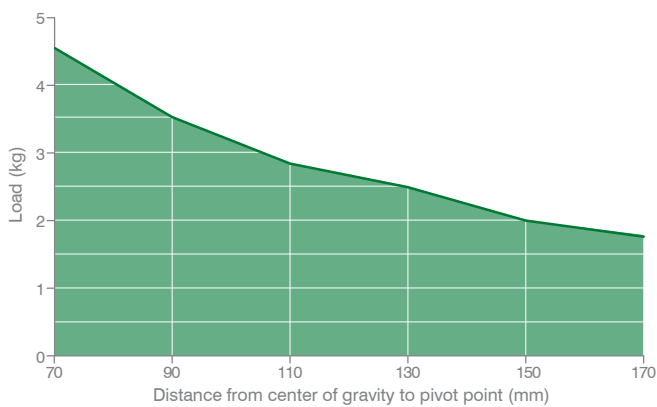
- Holding moment**

800 N m / 590,04 lb-ft

Size 63 mm

- Tooling weight chart**

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



- Holding moment**

1.500 N m / 1.106,34 lb-ft

CX-Series / Ordering string

CX-Series

C 1 X 40 E G 1 A 01

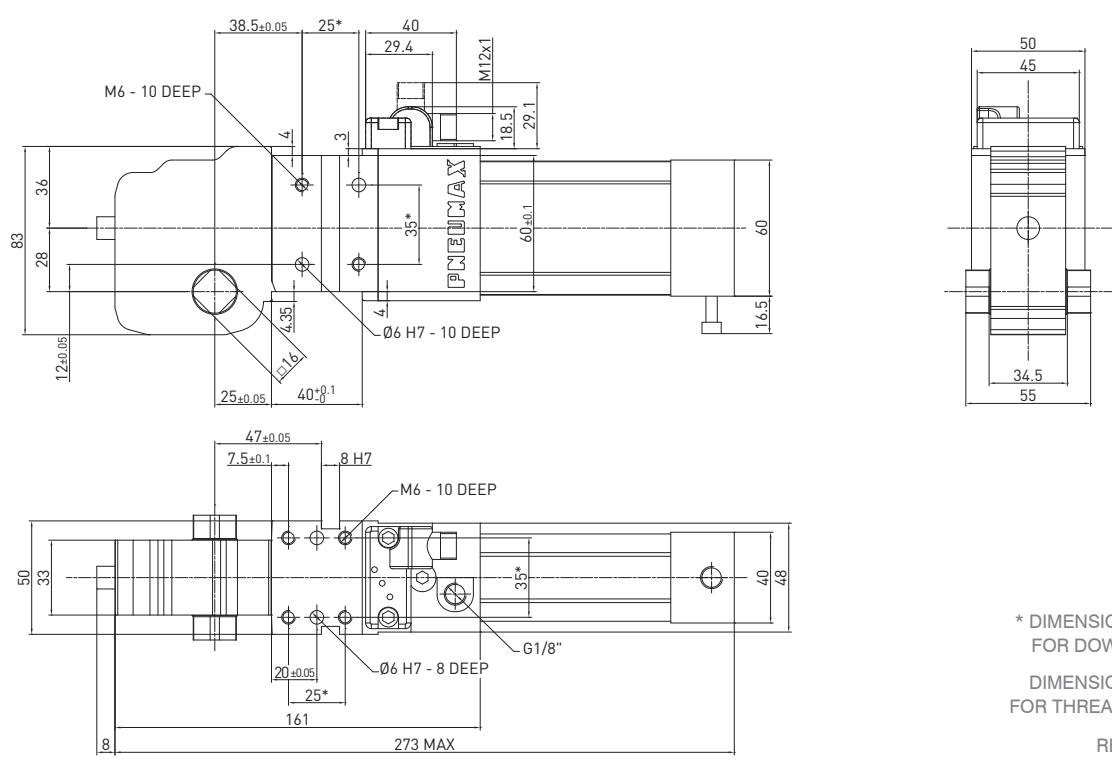
CLAMPING

C	VERSION	C = clamp
1	MOUNTING PATTERN	1 = International mount 2 = NAAMS Standard
X	OPERATION	X = double workpiece identification
40	SIZE	40 = 40 mm 63 = Ø 63 mm 50 = Ø 50 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
1	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

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

C1X40E / Clamp with double workpiece identification - International mount - 40 mm bore

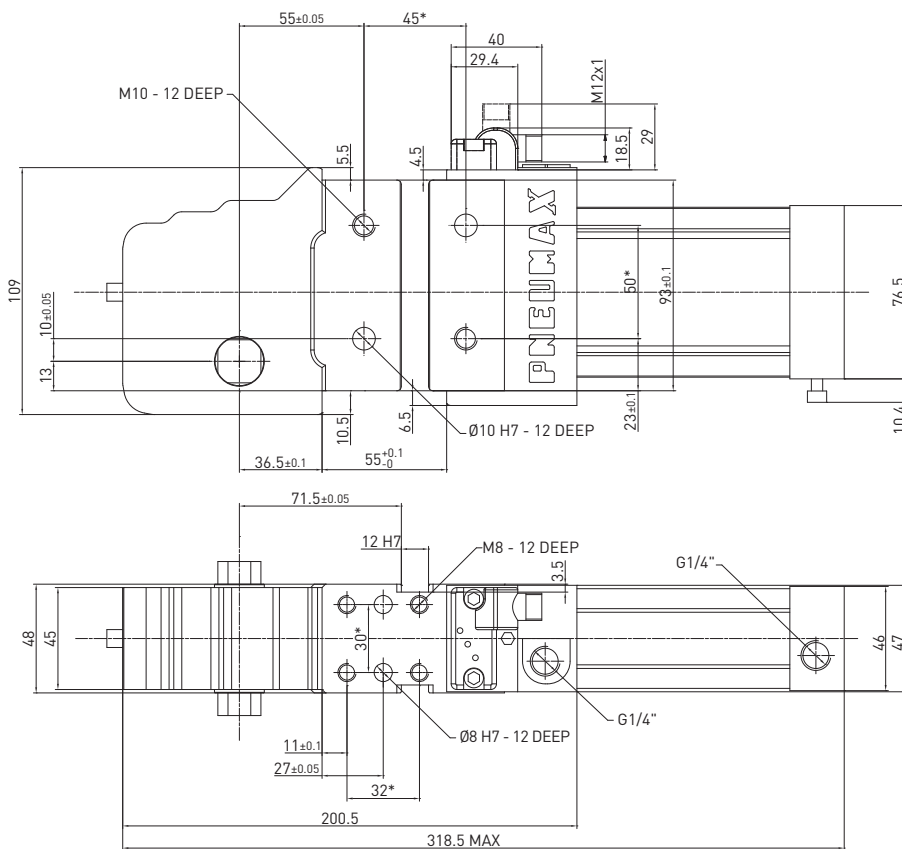
WEIGHT 1.6 kg



* DIMENSIONAL TOLERANCE FOR DOWEL HOLES: ±0.02
DIMENSIONAL TOLERANCE FOR THREADED HOLES: ±0.1

REV. 00 - 20/08/2018

C1X50E / Clamp with double workpiece identification - International mount - 50 mm bore



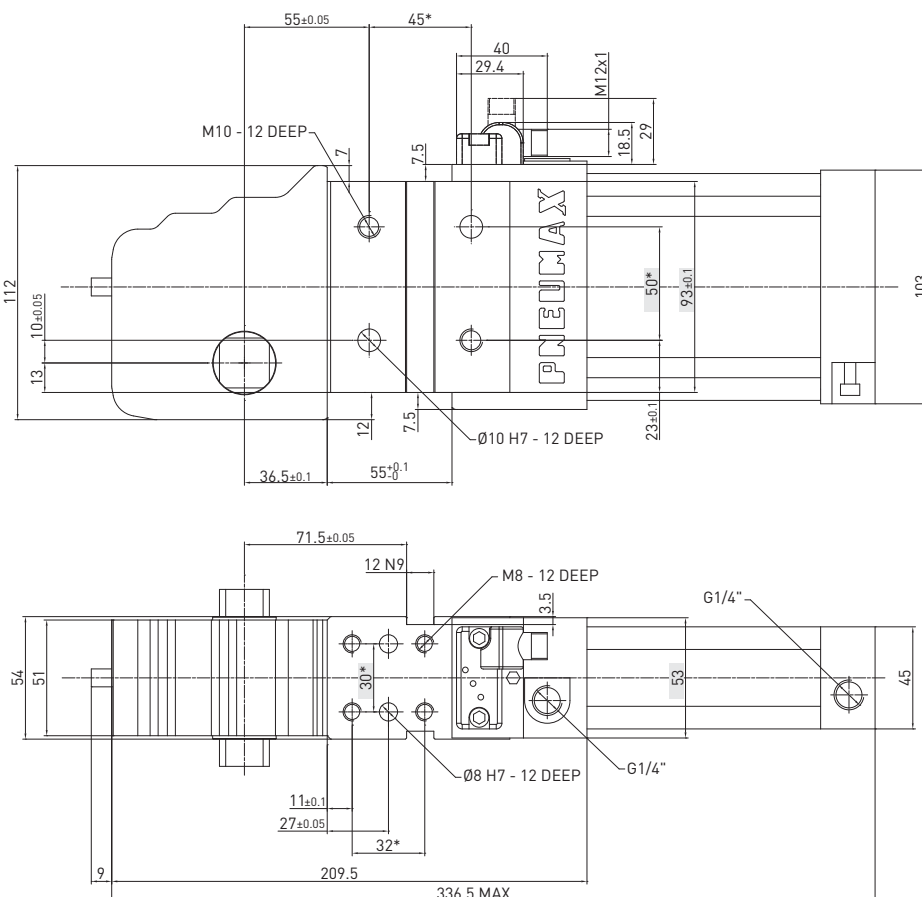
WEIGHT 2.9 kg

* DIMENSIONAL TOLERANCE FOR DOWEL HOLES: ±0.02
DIMENSIONAL TOLERANCE FOR THREADED HOLES: ±0.1

REV. 00 - 20/08/2018

CLAMPING

C1X63E / Clamp with double workpiece identification - International mount - 63 mm bore



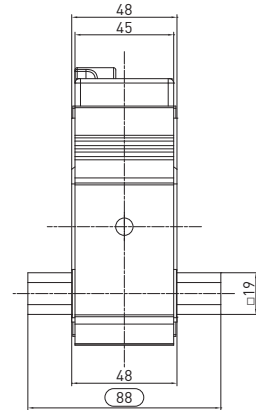
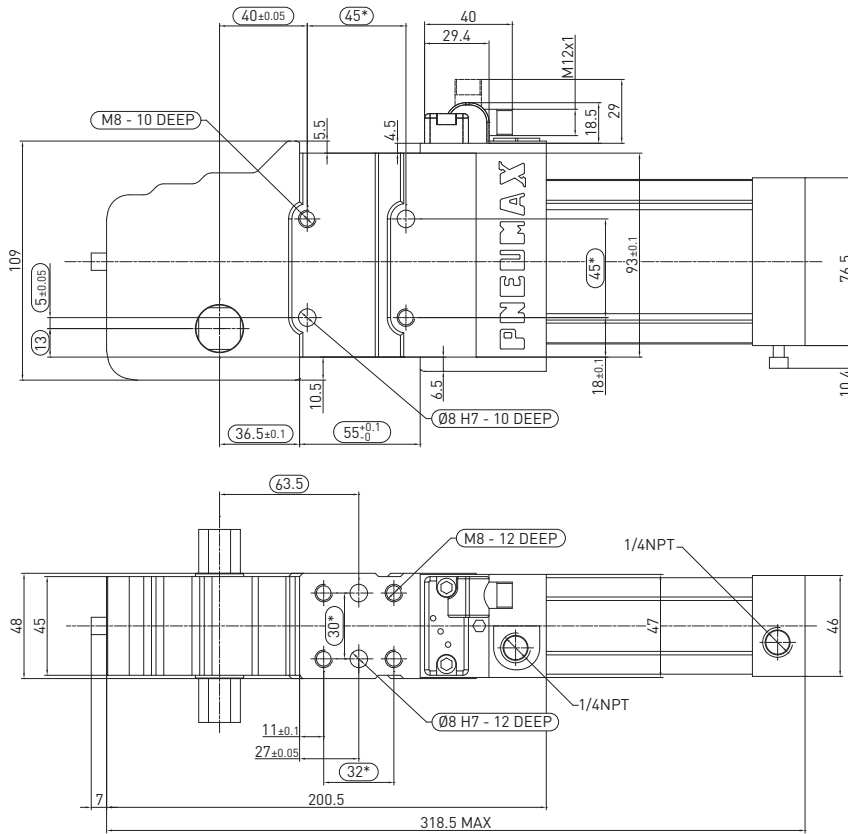
WEIGHT 3.7 kg

* DIMENSIONAL TOLERANCE FOR DOWEL HOLES: ±0.02
DIMENSIONAL TOLERANCE FOR THREADED HOLES: ±0.1

REV. 00 - 20/09/2018

C2X50E / Clamp with double workpiece identification - NAAMS Std - 50 mm bore

WEIGHT 2.95 kg

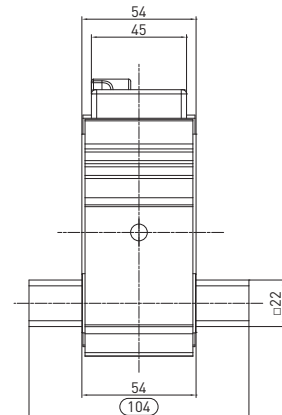
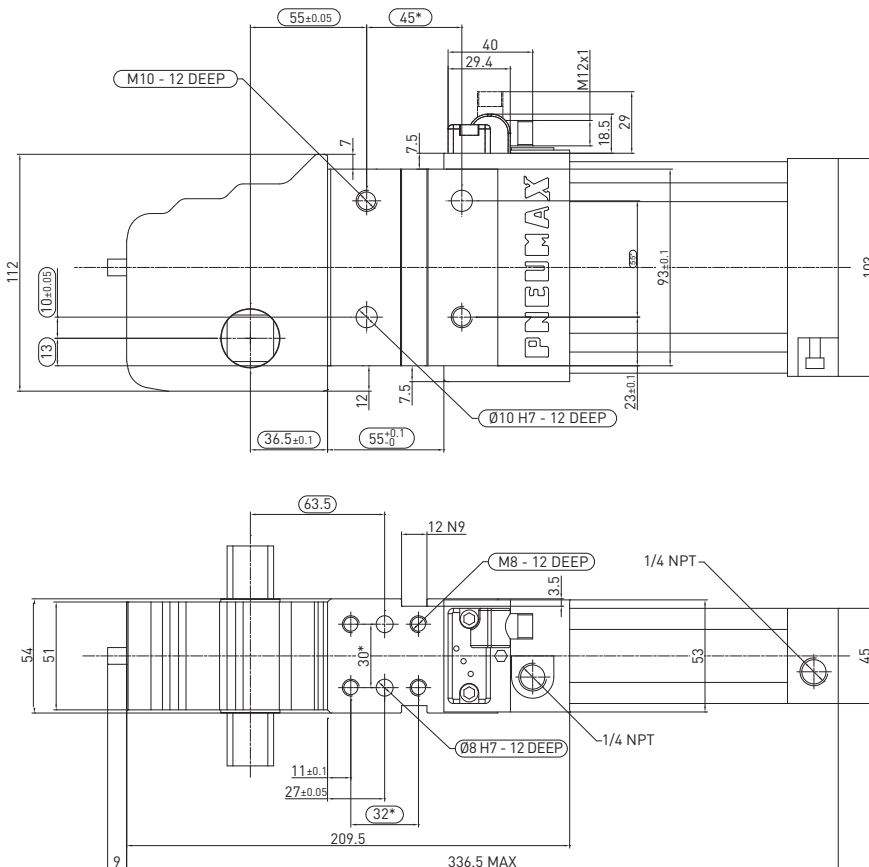


* DIMENSIONAL TOLERANCE
FOR DOWEL HOLES: ±0.02
DIMENSIONAL TOLERANCE
FOR THREADED HOLES: ±0.1

REV. 00 - 20/09/2018

C2X63E / Clamp with double workpiece identification - NAAMS Std - 63 mm bore

WEIGHT 3.75 kg

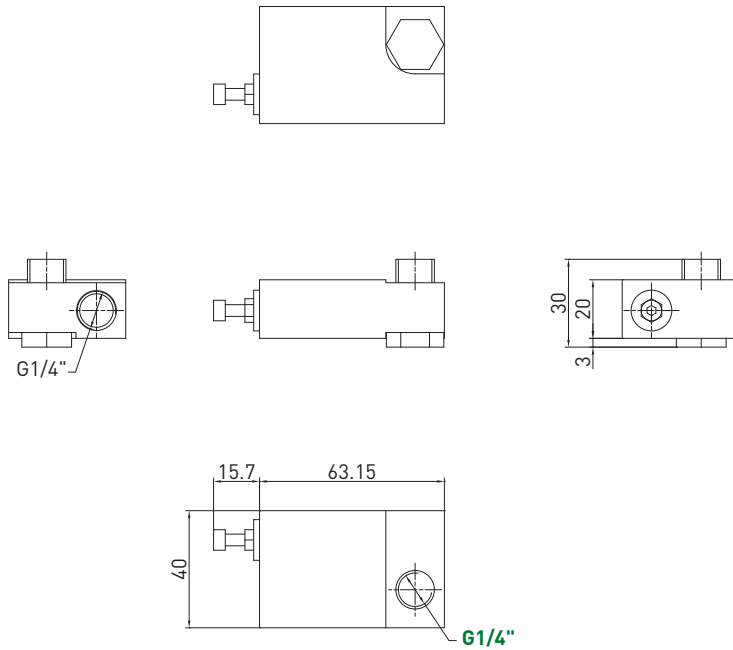


* DIMENSIONAL TOLERANCE
FOR DOWEL HOLES: ±0.02
DIMENSIONAL TOLERANCE
FOR THREADED HOLES: ±0.1

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ADWI14: for clamps size 50 and 63 mm / Devices for double workpiece identification - G 1/4"

WEIGHT 100 g

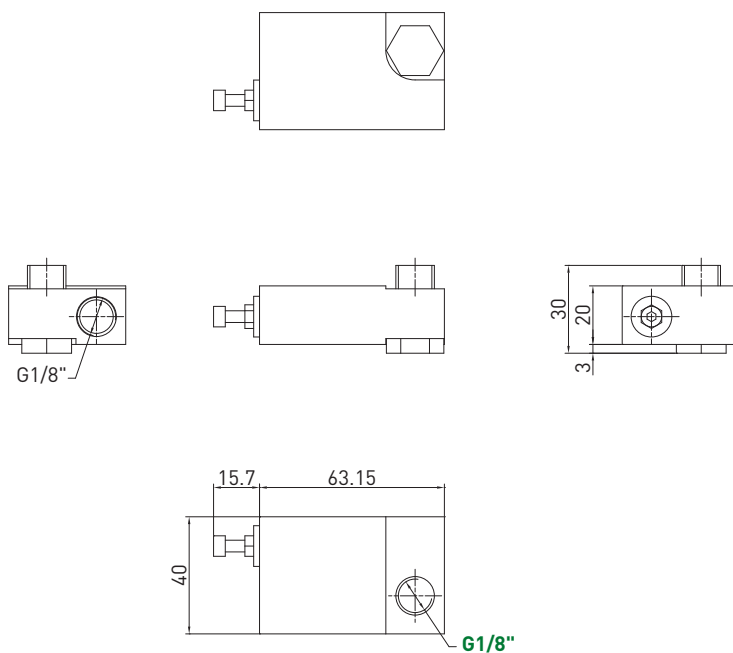


* DIMENSIONAL TOLERANCE
FOR DOWEL HOLES: ± 0.02
DIMENSIONAL TOLERANCE
FOR THREADED HOLES: ± 0.1

REV. 00 - 20/09/2018

ADWI18: for clamps size 25,32 and 40 mm / Devices for double workpiece identification - G 1/8"

WEIGHT 100 g



* DIMENSIONAL TOLERANCE
FOR DOWEL HOLES: ± 0.02
DIMENSIONAL TOLERANCE
FOR THREADED HOLES: ± 0.1

REV. 00 - 20/09/2018