

HE2-Series

High efficiency power clamps conforming to the NAAMS Standard

GLOBAL STANDARD COMPONENTS
NAAMS



Air consumption saving up to 41%

The perfect combination between **functionality** and **efficiency**: same clamping moment, same holding moment, same overall and functional dimensions, same load capacity of a standard clamp with International and NAAMS mounts available.



Patented

CLAMPING

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

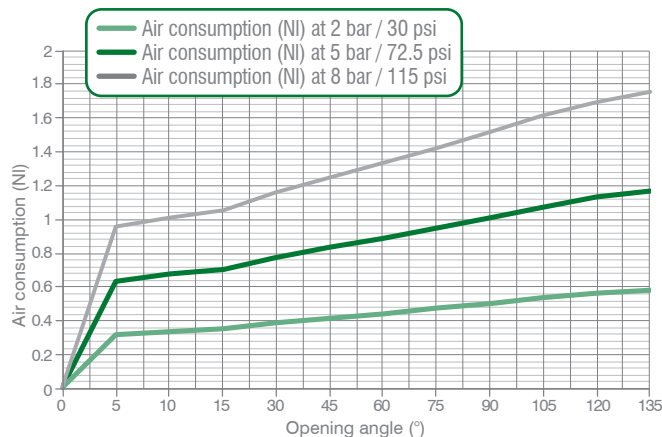
Operating pressure	from 2 to 8 bar / from 30 to 115 psi
Lubrication	all the devices are lubricated for life at the factory. Inline air lubrication isn't required

Functional charts

HE2P1E

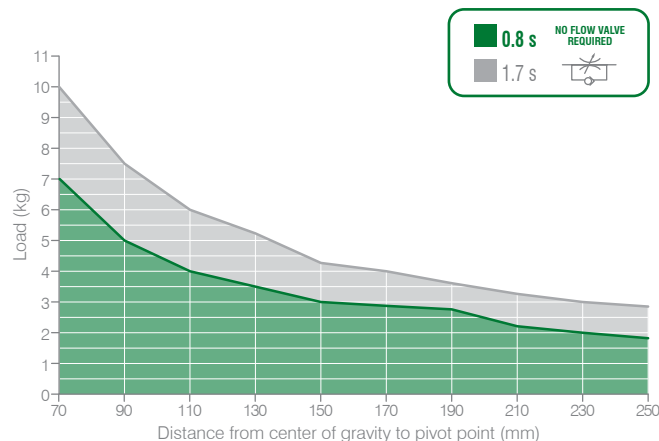
• Air consumption

Air consumption for complete cycle (opening and closing)
REV. 00 - 31/03/2015



• Tooling weight chart

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



• 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.

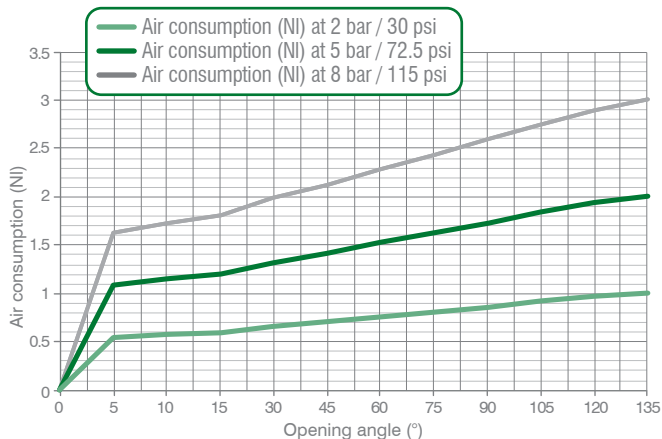


HE2P2E

Air consumption

Air consumption for complete cycle (opening and closing)

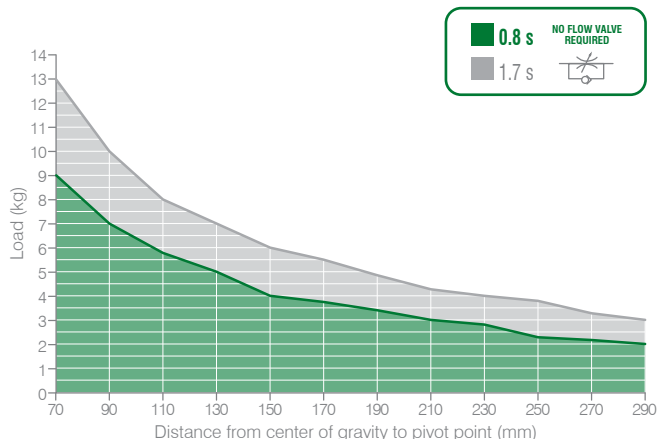
REV. 00 - 31/03/2015



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

1500 N m / 1.106,34 lb-ft

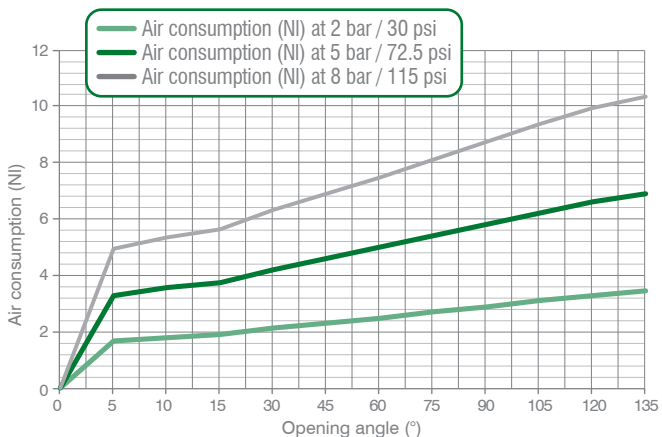
The above data are meant for correct working conditions of the clamp with the same performance level during its life time. For applications which exceed the above data, please contact our sales representatives.

HE2P3E

Air consumption

Air consumption for complete cycle (opening and closing)

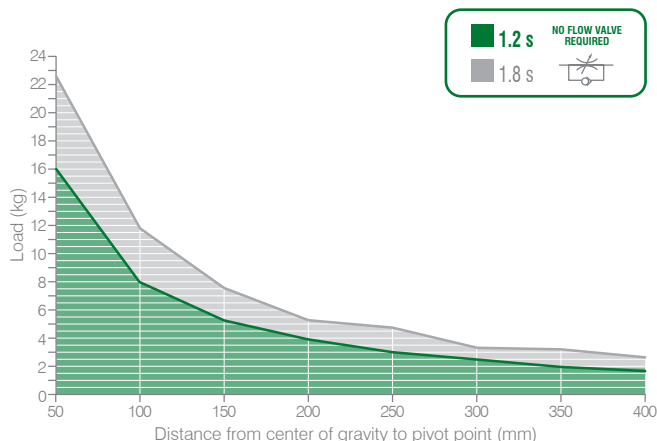
REV. 00 - 21/01/2016



Tooling weight chart

5 bar operating pressure – 135° opening angle

REV. 00 - 17/06/2015



Clamping moment (at 5 bar / 72.5 psi)

850 N m / 626,92 lb-ft

Holding moment

2500 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.

HE2-Series / Ordering string

HE2-Series

HE 2 P 2 E G L

CLAMPING

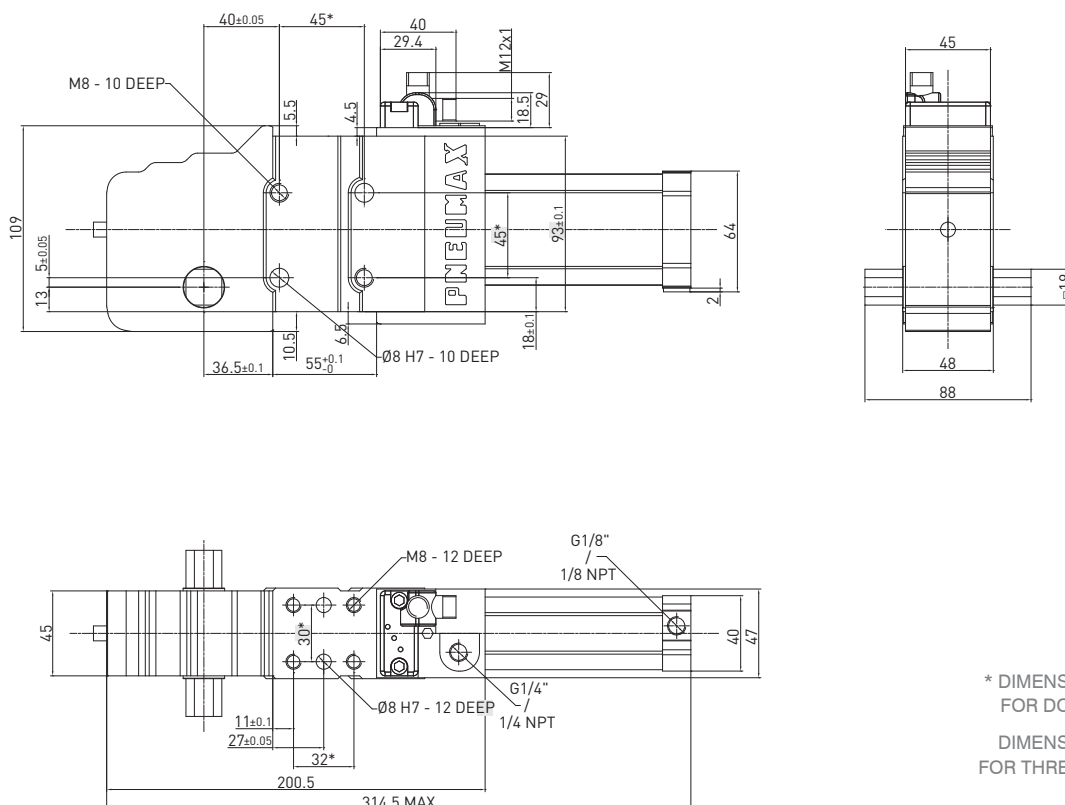
HE	VERSION	HE = high efficiency clamp
2	MOUNTING PATTERN	2 = NAAMS Standard
P	OPERATION	P = pneumatic
2	SIZE	1 = housing size 50 / cylinder Ø 40 mm 3 = housing size 80 / cylinder Ø 63 mm 2 = housing size 63 / cylinder Ø 50 mm
E	SENSOR	E = electronic sensor with M12 swivel connector - PNP A = electronic 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
L	SHAFT OUTPUT	— = dual output L = single output - LEFT R = single output - RIGHT



Please see the charts in the datasheets for arm position as well as for max. opening angle.
NAAMS clamping arms to be ordered separately
*for size 3 > 20 mm offset

HE2P1E / High Efficiency clamp - NAAMS Std - Housing size 50/cylinder Ø 40 mm

WEIGHT 2.5 kg



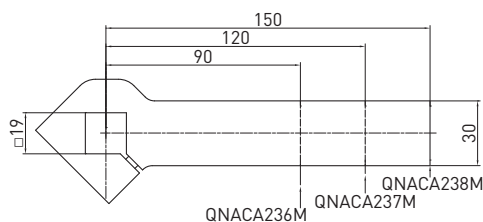
* DIMENSIONAL TOLERANCE FOR DOWEL HOLES: ±0.02
DIMENSIONAL TOLERANCE FOR THREADED HOLES: ±0.1

REV. 02 - 29/03/2019

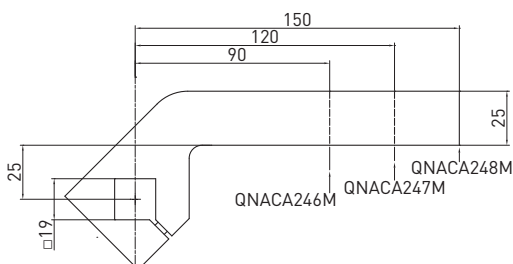
Clamping arms / 19 mm shaft - NAAMS Std

REV 03 - 29/03/2019

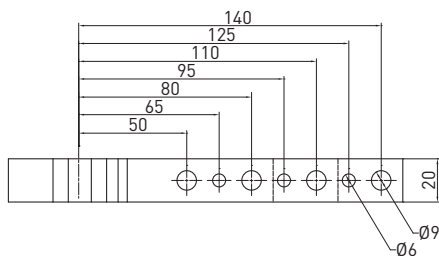
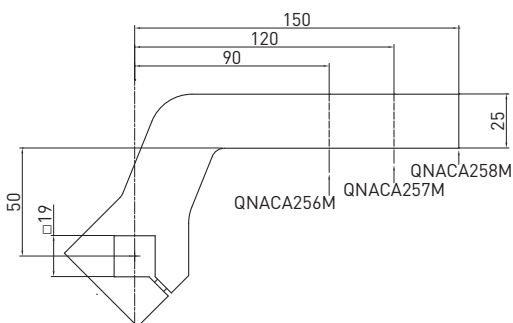
0 mm OFFSET



25 mm OFFSET



50 mm OFFSET



19 mm shaft – 0 mm offset

Part no.	Material	Length (mm)	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
QNACA236M	Steel	90	0.4	135°	135°	135°	135°
QNACA237M	Steel	120	0.49	135°	135°	135°	135°
QNACA238M	Steel	150	0.58	135°	135°	135°	135°

Screws: M6x25 Tightening torque: 10 N m / 7.37 lb-ft

19 mm shaft – 25 mm offset

Part no.	Material	Length (mm)	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
QNACA246M	Steel	90	0.44	135°	135°	135°	135°
QNACA247M	Steel	120	0.52	135°	135°	135°	135°
QNACA248M	Steel	150	0.6	135°	135°	135°	135°

Screws: M6x25 Tightening torque: 10 N m / 7.37 lb-ft

19 mm shaft – 50 mm offset

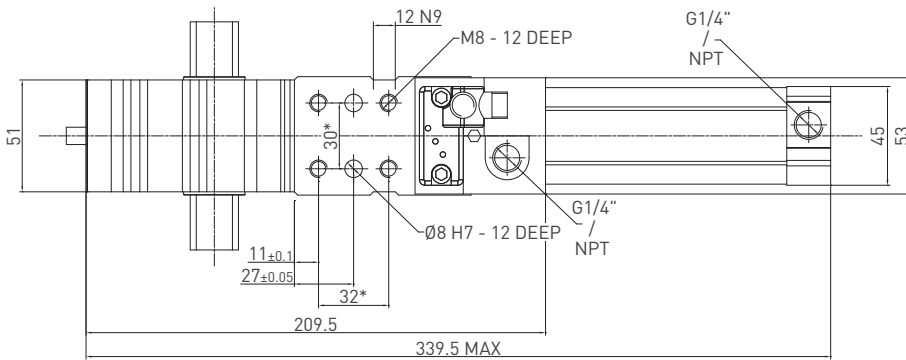
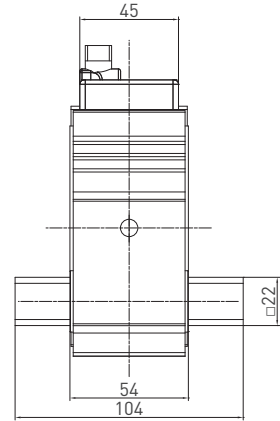
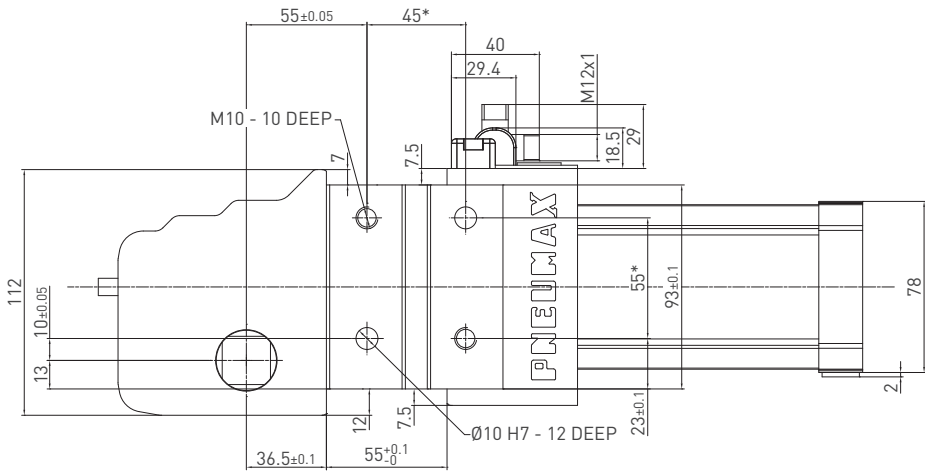
Part no.	Material	Length (mm)	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
QNACA256M	Steel	90	0.52	135°	135°	135°	135°
QNACA257M	Steel	120	0.6	135°	135°	135°	135°
QNACA258M	Steel	150	0.68	135°	135°	135°	135°

Screws: M6x25 Tightening torque: 10 N m / 7.37 lb-ft

HE2P2E / High efficiency clamp - NAAMS Std - Housing size 63 / cylinder Ø 50 mm

WEIGHT 2.8 kg

CLAMPING



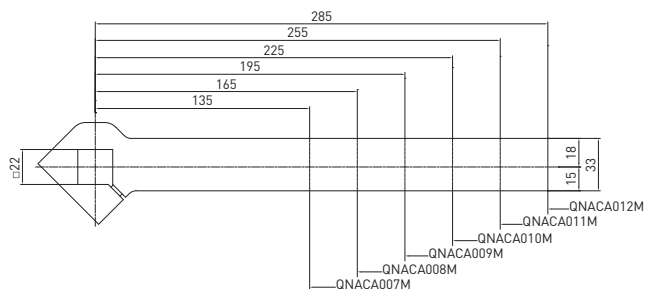
* DIMENSIONAL TOLERANCE
FOR DOWEL HOLES: ± 0.02
DIMENSIONAL TOLERANCE
FOR THREADED HOLES: ± 0.1

REV. 00 - 02/10/2015

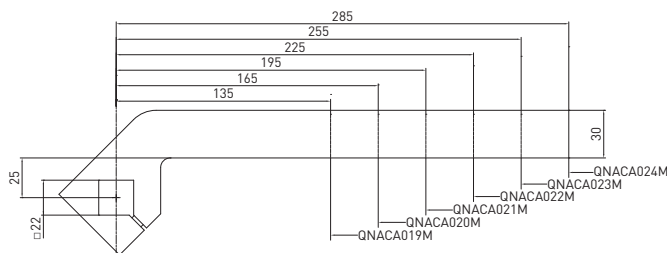
Clamping arms / 22 mm shaft - NAAMS Std

REV 02 - 29/03/2019

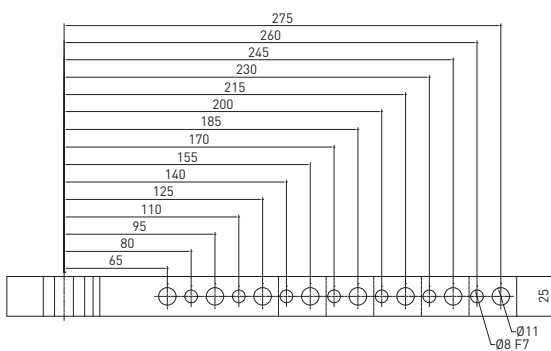
0 mm OFFSET



25 mm OFFSET



CLAMPING



22 mm shaft – 0 mm offset

Part no.	Material	Length (mm)	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
QNACA007M	Steel	135	0.72	135°	135°	135°	135°
QNACA008M	Steel	165	0.83	135°	135°	135°	135°
QNACA009M	Steel	195	0.94	135°	135°	135°	135°
QNACA010M	Steel	225	1.05	135°	135°	135°	135°
QNACA011M	Steel	255	1.16	135°	135°	135°	135°
QNACA012M	Steel	285	1.28	135°	135°	135°	135°

Screws: M8x25 Tightening torque: 25 N m / 18.43 lb ft

22 mm shaft – 25 mm offset

Part no.	Material	Length (mm)	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
QNACA019M	Steel	135	0.84	135°	135°	135°	135°
QNACA020M	Steel	165	0.95	135°	135°	135°	135°
QNACA021M	Steel	195	1.05	135°	135°	135°	135°
QNACA022M	Steel	225	1.16	135°	135°	135°	135°
QNACA023M	Steel	255	1.26	135°	135°	135°	135°
QNACA024M	Steel	285	1.37	135°	135°	135°	135°

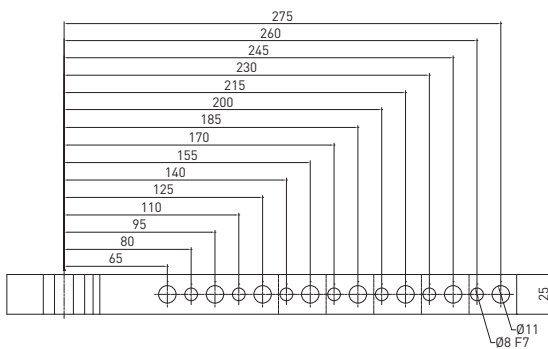
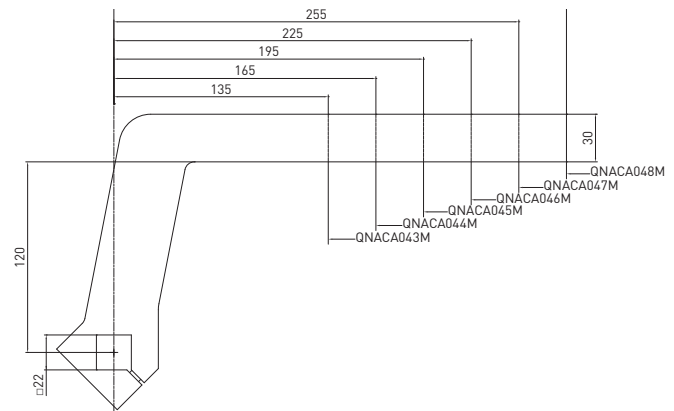
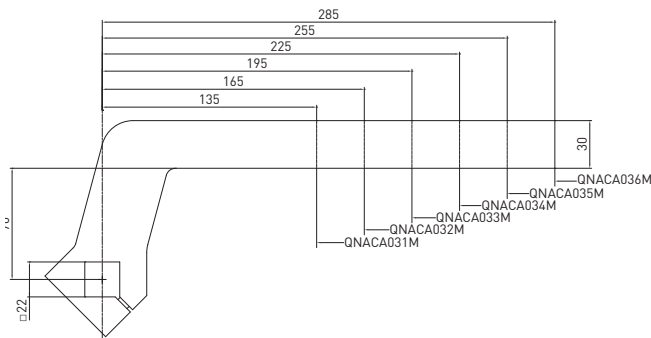
Screws: M8x25 Tightening torque: 25 N m / 18.43 lb ft

Clamping arms / 22 mm shaft - NAAMS Std

REV. 01 - 31/07/2015

70 mm OFFSET

120 mm OFFSET



22 mm shaft – 70 mm offset

Part no.	Material	Length (mm)	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
QNACA031M	Steel	135	1.05	135°	135°	135°	135°
QNACA032M	Steel	165	1.16	135°	135°	135°	135°
QNACA033M	Steel	195	1.27	135°	135°	135°	135°
QNACA034M	Steel	225	1.38	135°	135°	135°	135°
QNACA035M	Steel	255	1.49	135°	135°	135°	135°
QNACA036M	Steel	285	1.6	135°	135°	135°	135°

Screws: M8X25 Tightening torque: 25 N m / 18.43 lb ft

22 mm shaft – 120 mm offset

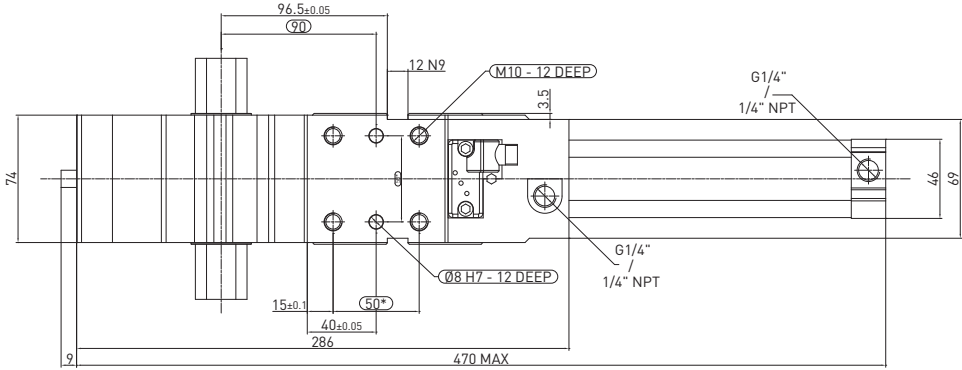
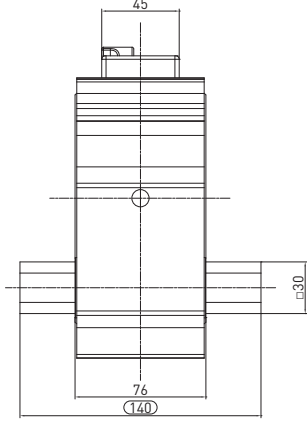
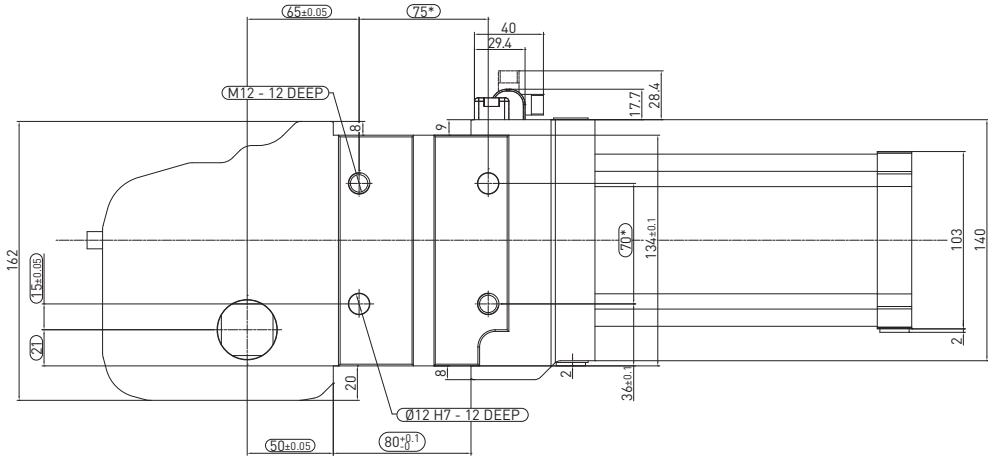
Part no.	Material	Length (mm)	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
QNACA043M	Steel	135	1.27	135°	135°	135°	135°
QNACA044M	Steel	165	1.37	135°	135°	135°	135°
QNACA045M	Steel	195	1.48	135°	135°	135°	135°
QNACA046M	Steel	225	1.58	135°	135°	135°	135°
QNACA047M	Steel	255	1.69	135°	135°	135°	135°
QNACA048M	Steel	285	1.8	135°	135°	135°	135°

Screws: M8X25 Tightening torque: 25 N m / 18.43 lb ft



HE2P3E / High Efficiency clamp - NAAMS Std - Housing size 80 / cylinder Ø 63 mm

WEIGHT 7.76 kg



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

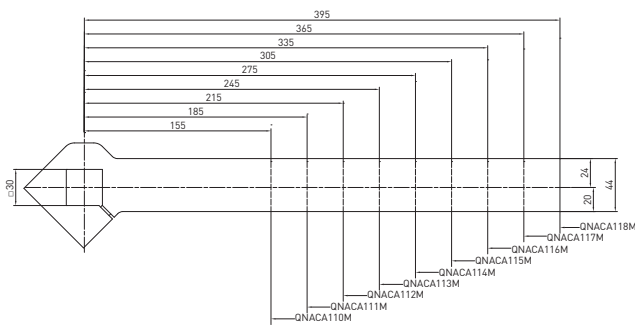
REV. 00 - 20/10/2015

CLAMPING

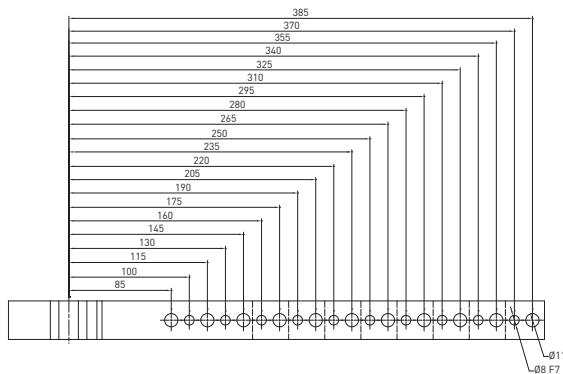
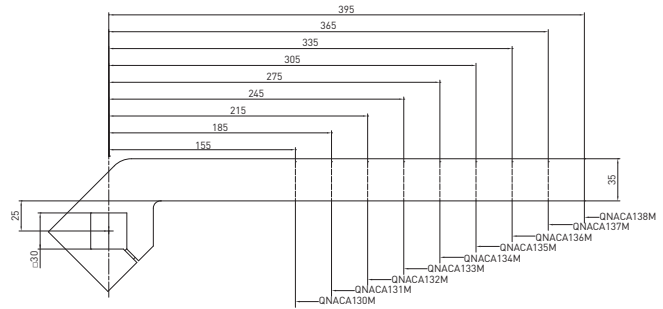
Clamping arms / 30 mm shaft - NAAMS Std

REV. 01 - 31/03/2015

0 mm OFFSET



25 mm OFFSET



30 mm shaft – 0 mm offset

Part no.	Material	Length (mm)	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
QNACA110M	Steel	155	1.41	135°	135°	135°	135°
QNACA111M	Steel	185	1.58	135°	135°	135°	135°
QNACA112M	Steel	215	1.76	135°	135°	135°	135°
QNACA113M	Steel	245	1.93	135°	135°	135°	135°
QNACA114M	Steel	275	2.1	135°	135°	135°	135°
QNACA115M	Steel	305	2.27	135°	135°	135°	135°
QNACA116M	Steel	335	2.45	135°	135°	135°	135°
QNACA117M	Steel	365	2.62	135°	135°	135°	135°
QNACA118M	Steel	395	2.8	135°	135°	135°	135°

Screws: M10x40 Tightening torque: 35 N m / 25.81 lb ft

30 mm shaft – 25 mm offset

Part no.	Material	Length (mm)	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
QNACA130M	Steel	155	1.24	135°	135°	135°	135°
QNACA131M	Steel	185	1.39	135°	135°	135°	135°
QNACA132M	Steel	215	1.54	135°	135°	135°	135°
QNACA133M	Steel	245	1.69	135°	135°	135°	135°
QNACA134M	Steel	275	1.84	135°	135°	135°	135°
QNACA135M	Steel	305	2	135°	135°	135°	135°
QNACA136M	Steel	335	2.14	135°	135°	135°	135°
QNACA137M	Steel	365	2.29	135°	135°	135°	135°
QNACA138M	Steel	395	2.45	135°	135°	135°	135°

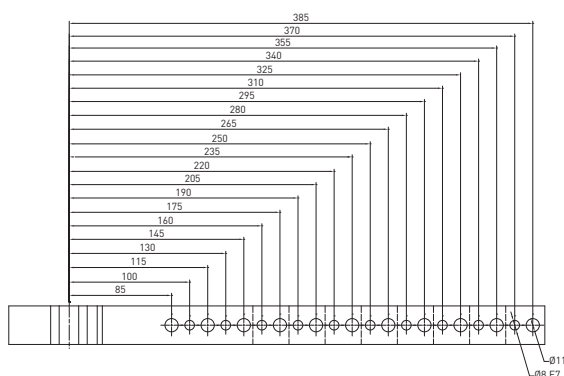
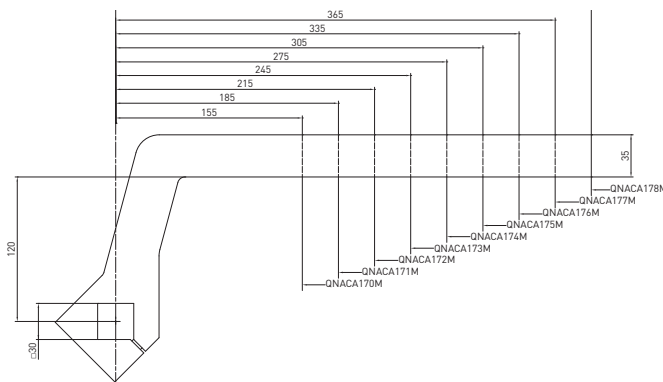
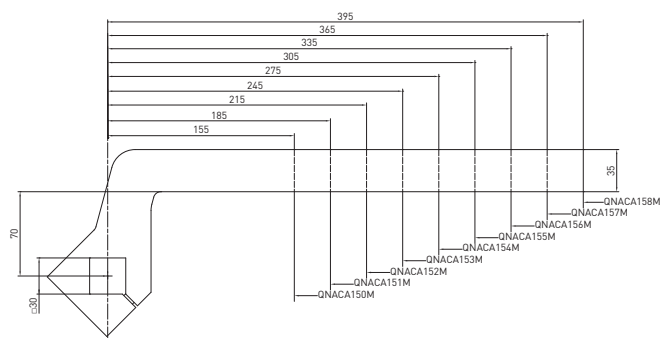
Screws: M10x40 Tightening torque: 35 N m / 25.81 lb ft

Clamping arms / 30 mm shaft - NAAMS Std

REV. 01 - 31/03/2015

70 mm OFFSET

120 mm OFFSET



CLAMPING

30 mm shaft – 70 mm offset

Part no.	Material	Length (mm)	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
QNACA150M	Steel	155	1.7	135°	135°	135°	135°
QNACA151M	Steel	185	1.85	135°	135°	135°	135°
QNACA152M	Steel	215	2	135°	135°	135°	135°
QNACA153M	Steel	245	2.15	135°	135°	135°	135°
QNACA154M	Steel	275	2.3	135°	135°	135°	135°
QNACA155M	Steel	305	2.45	135°	135°	135°	135°
QNACA156M	Steel	335	2.6	135°	135°	135°	135°
QNACA157M	Steel	365	2.76	135°	135°	135°	135°
QNACA158M	Steel	395	2.92	135°	135°	135°	135°

Screws: M10x40 Tightening torque: 35 N m / 25.81 lb ft

30 mm shaft – 120 mm offset

Part no.	Material	Length (mm)	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
QNACA170M	Steel	155	1.97	135°	135°	135°	135°
QNACA171M	Steel	185	2.12	135°	135°	135°	135°
QNACA172M	Steel	215	2.27	135°	135°	135°	135°
QNACA173M	Steel	245	2.42	135°	135°	135°	135°
QNACA174M	Steel	275	2.57	135°	135°	135°	135°
QNACA175M	Steel	305	2.72	135°	135°	135°	135°
QNACA176M	Steel	335	2.87	135°	135°	135°	135°
QNACA177M	Steel	365	3.02	135°	135°	135°	135°
QNACA178M	Steel	395	3.19	135°	135°	135°	135°

Screws: M10x40 Tightening torque: 35 N m / 25.81 lb ft