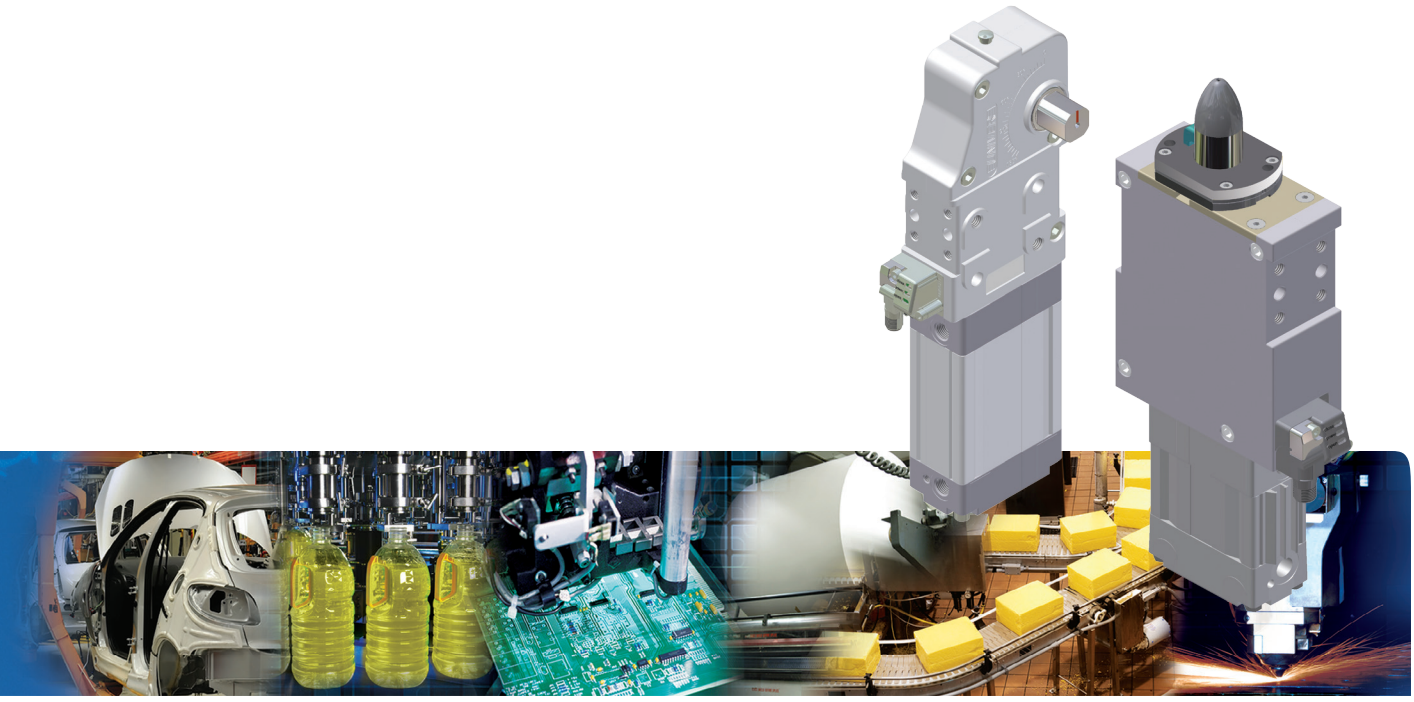
ASCO™ numatics

Pneumatic Power Clamps

UNP Series | NAAMS Pneumatic Power Clamp
UB Series | Pneumatic Power Clamp
LSP Series | Pneumatic Pin Clamp
LTP Series | Pneumatic Pin Clamp



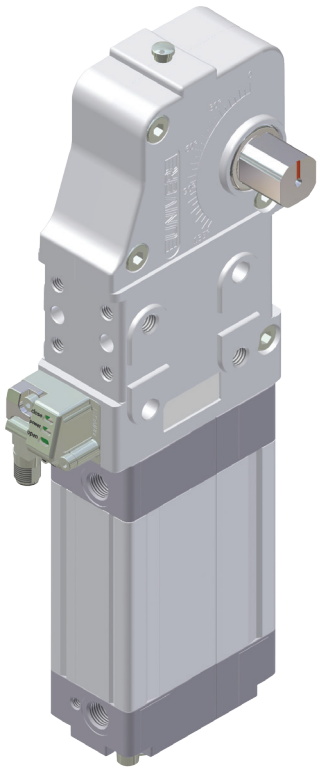
EMERSON™

Table of Contents

Power Clamps

Pneumatic

UNP SERIES NAAMS POWER CLAMP



Features

- Conforms to the NAAMS (North American Automotive Metric Standard) Standard*
- Blade and foot mounting
- Fully adjustable opening angle
- Opening angle can be set with or without air pressure.
- Unique linkage design ensures positional repeatability.
- Linear and rotary motion guided by roller bearings
- Remains locked in closed position even when air pressure is removed
- Pneumatic ports on both sides of the actuator
- Manual release button to open mechanism when air pressure is removed
- Unique “programmable” all metal sensor with M12 swivel connector

* European standard arms are also available.

General Specifications

Weight:

UNP50: 3.2 Kg (7.1 lbs.)
UNP63: 3.6 Kg (7.9 lbs.)
UNP80: 11.5 Kg (25.4 lbs.)

Operating Pressure:
Minimum: 2.75 Bar (40 PSIG)
Maximum: 8 Bar (115 PSIG)

Operating Temperature: 5˚ to 45˚ C (40˚ to 113˚ F)

Class Protection: IP65

Opening Angles:
UNP50, 63, 80: Fully adjustable from 0˚ to 135˚

Holding Capacity:
UNP50: 1250 Nm (11063 in-lbs)
UNP63: 1750 Nm (15488 in-lbs)
UNP80: 4000 Nm (35402 in-lbs)

How to Order

UNP Series NAAMS Power Clamp

UN	P	63	N	N	E	N

Series
UN = UNIVERSAL power clamps conforming to NAAMS Standard fully adjustable opening angle

Version
P = Pneumatic standard
M = W/Manual Lever

Bore Size
50 = 50 mm
63 = 63 mm
80 = 80 mm

Clamping Arm
N = No arm

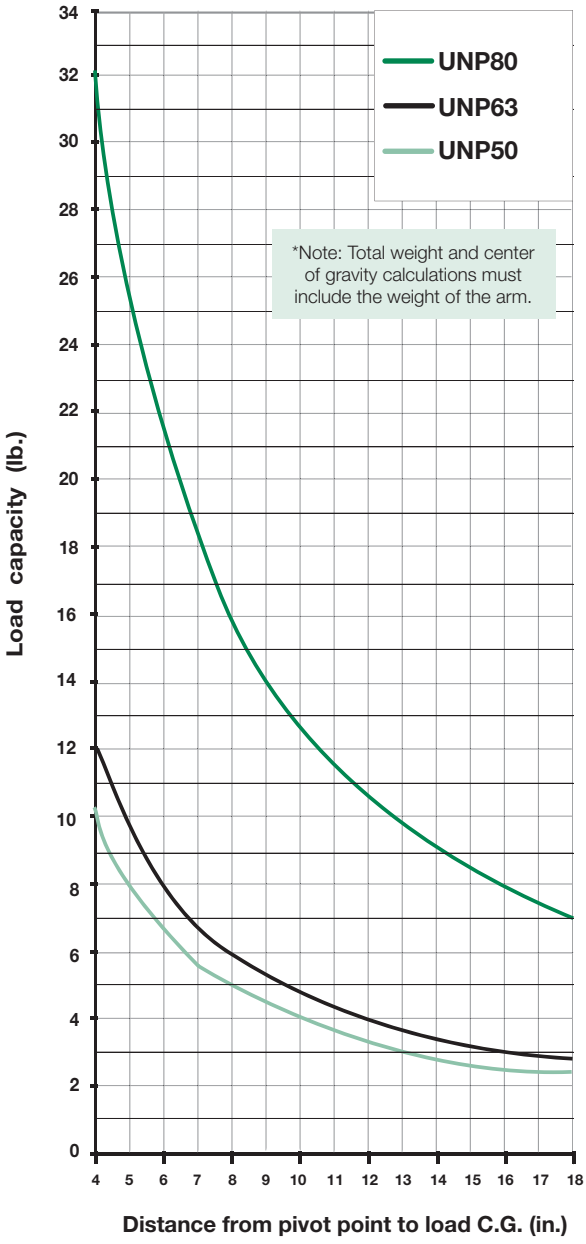
Output Shaft
N = Dual shaft
L = Left side only
R = Right side only

Sensing Style
N = No sensor
E = Electronic 24 VDC sensor with M12 swivel connector

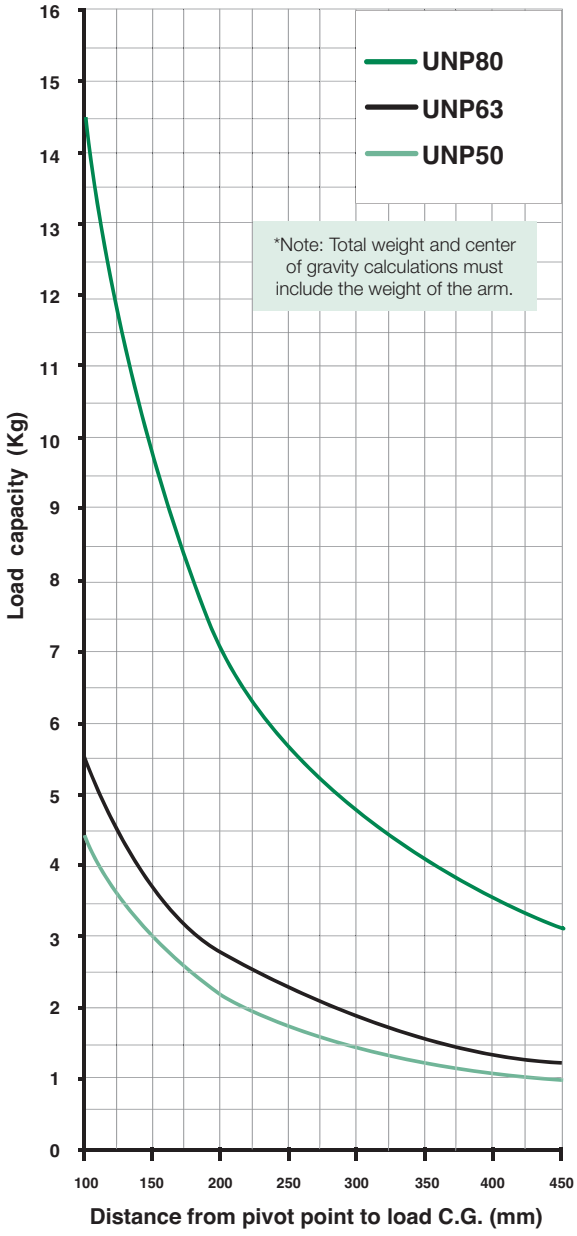
Port Type
N = 1/4 NPT
G = G 1/4

Maximum Applicable Load

English
operating pressure : 60 PSIG



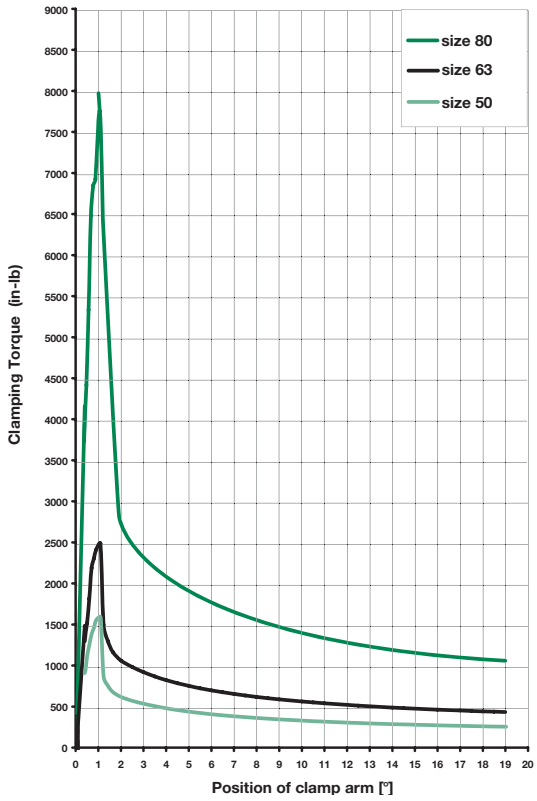
Metric
operating pressure : 4 bar



Maximum Clamping Torque

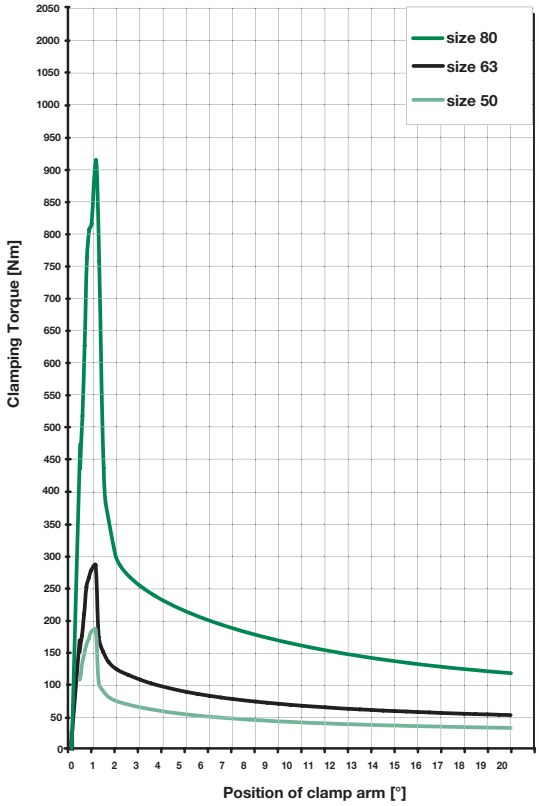
English

operating pressure : 60 PSIG



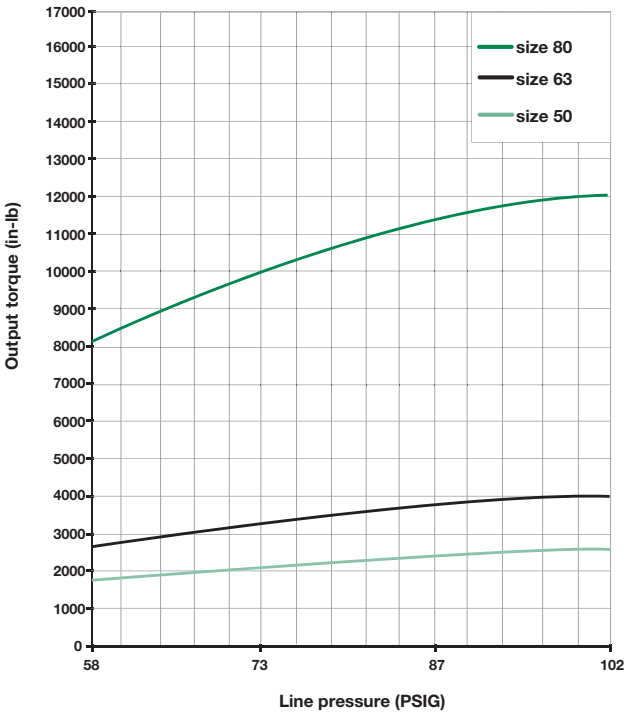
Metric

operating pressure : 4 bar

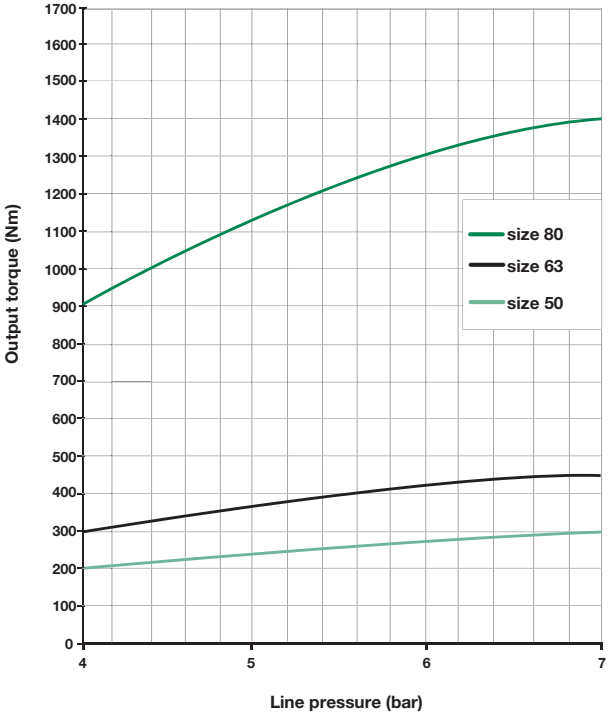


Maximum Output Torque

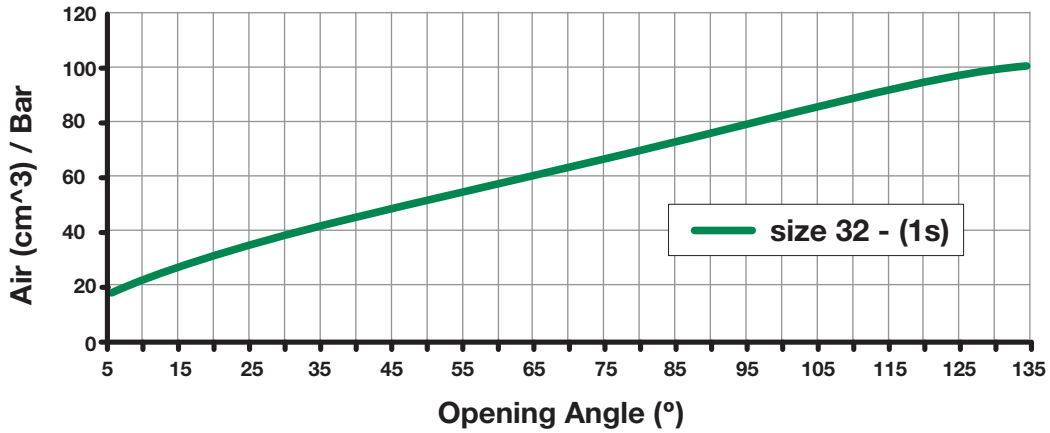
English



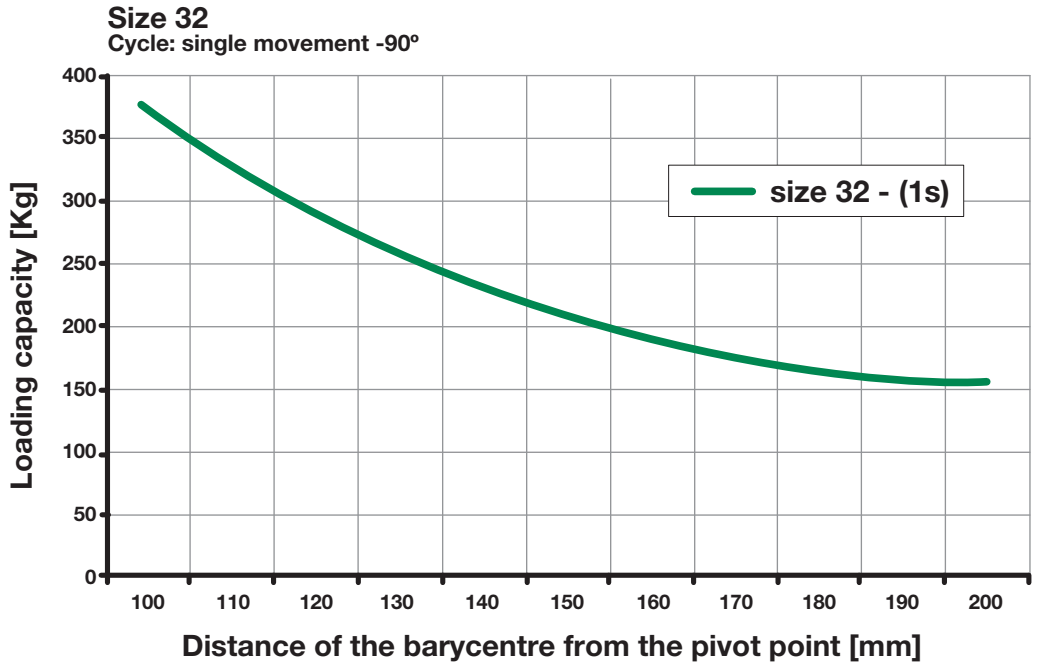
Metric



Air Consumption

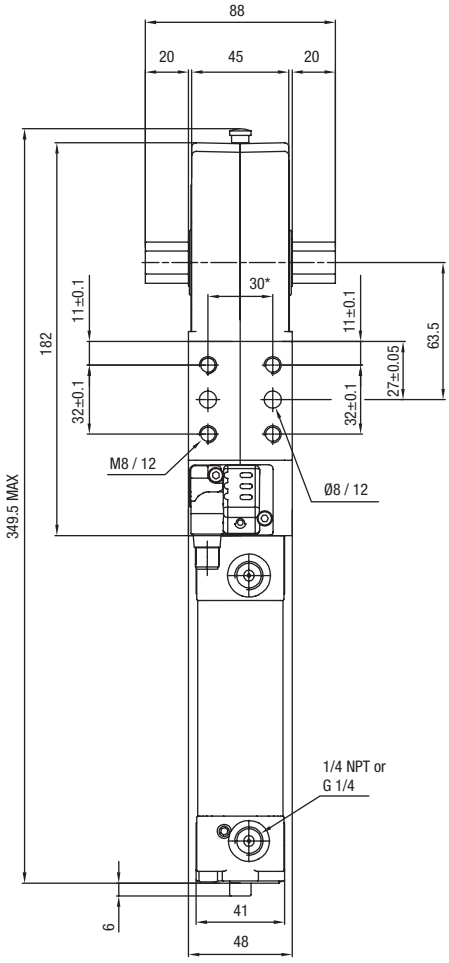


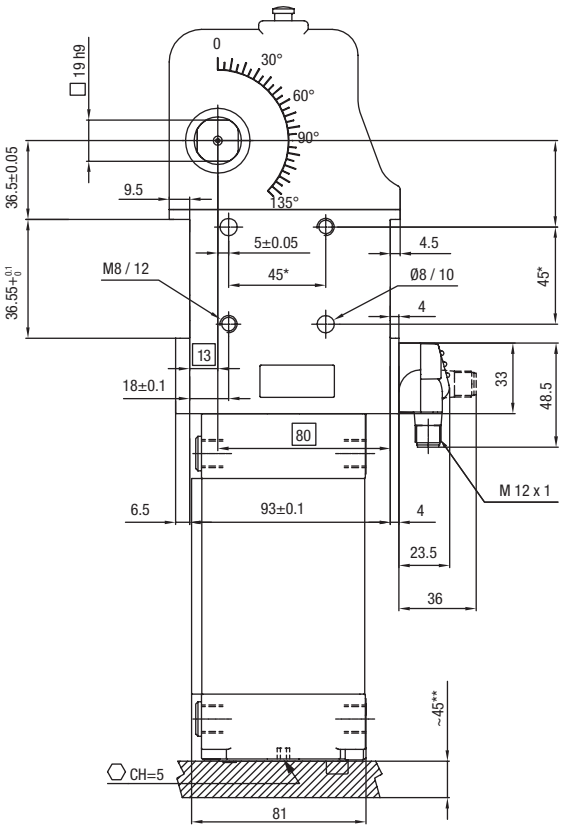
Maximum Applicable Load

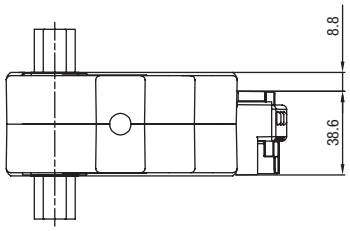


Dimensions: mm

Dimensional Drawing - UNP50N_E Pneumatic Power Clamp





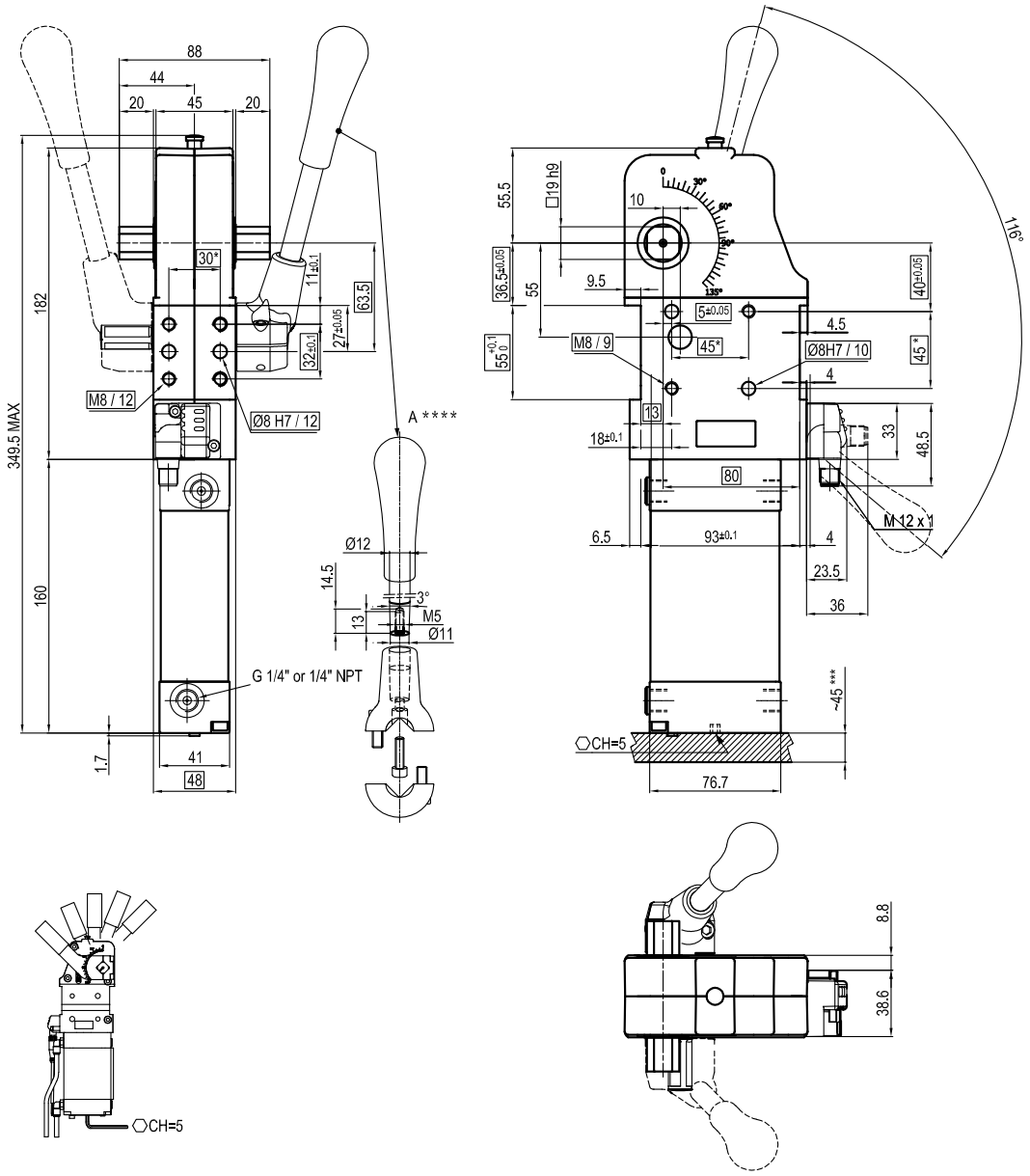


* Tolerance between dowel holes ± 0.02, to screw holes ± 0.1

** Area to access angle adjustment

Dimensions: mm

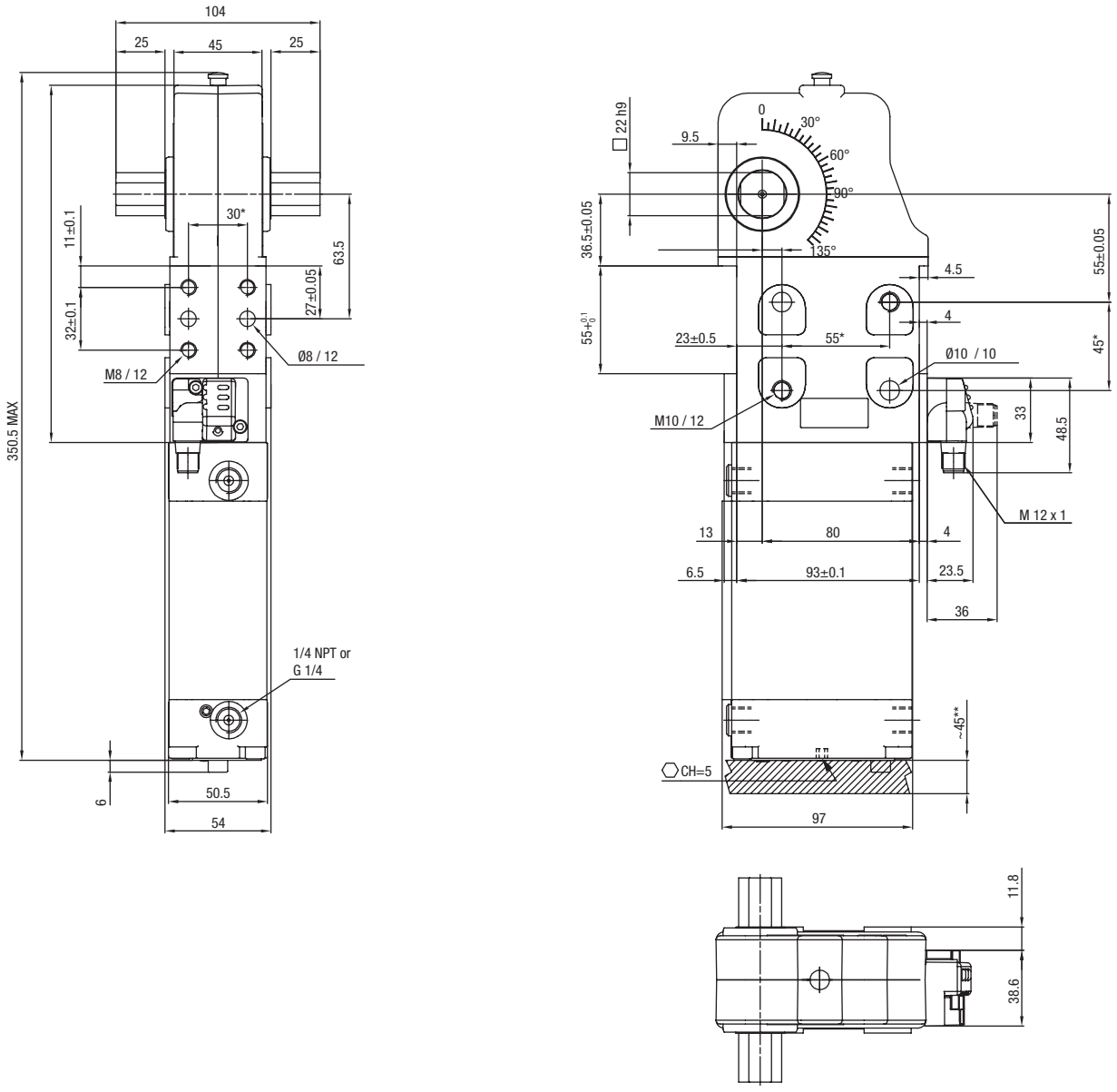
Dimensional Drawing - UNM50NNE_ Pneumatic Power Clamp with Manual Lever



* Tolerance between dowel holes ± 0.02, to screw holes ± 0.1
** The measures refer to NAAMS standard
*** Area to access angle adjustment
**** Dimension to be respected in case other manual levers are used

Dimensions: mm

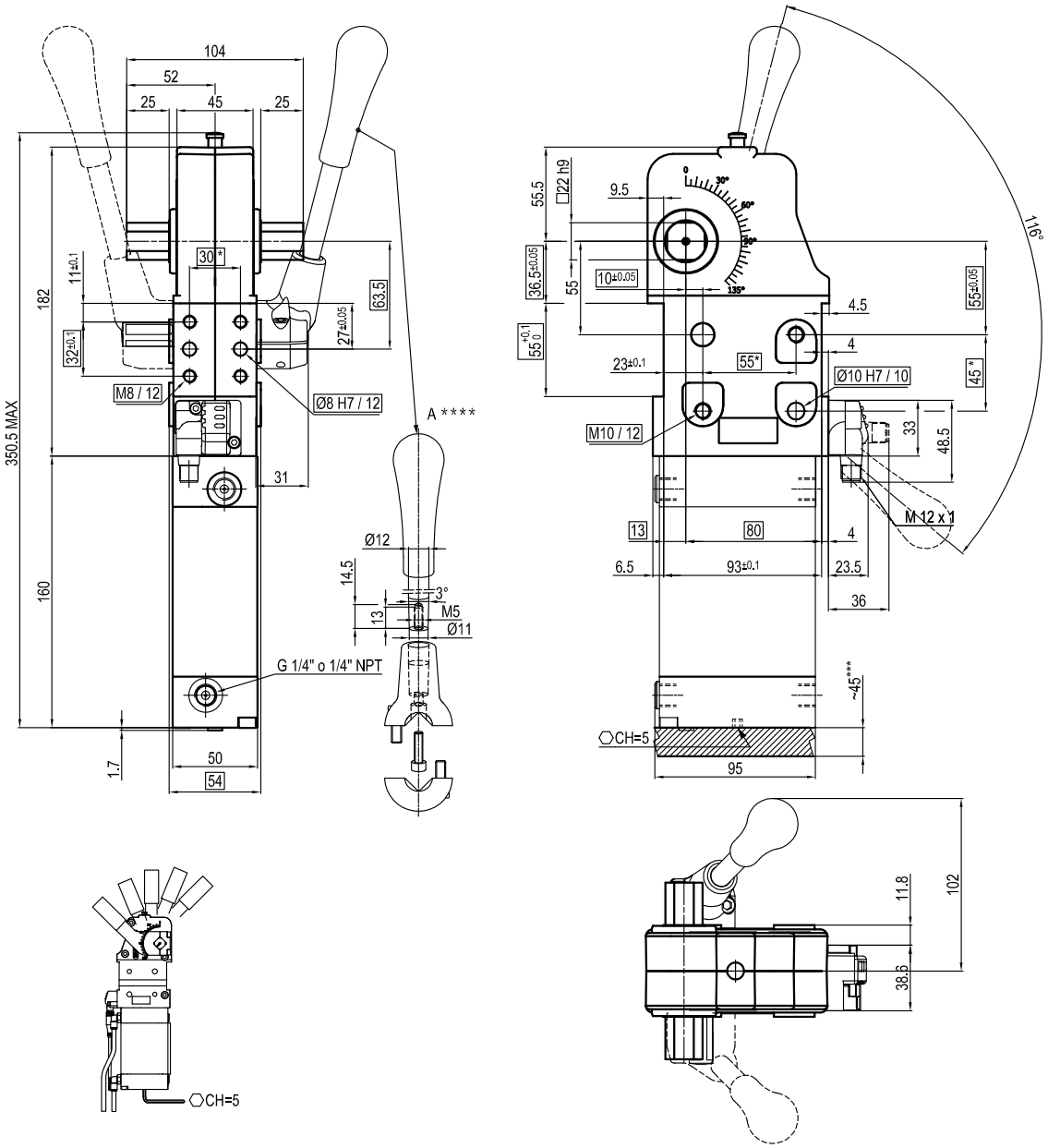
Dimensional Drawing - UNP63N_E Pneumatic Power Clamp



* Tolerance between dowel holes ± 0.02, to screw holes ± 0.1
** Area to access angle adjustment

Dimensions: mm

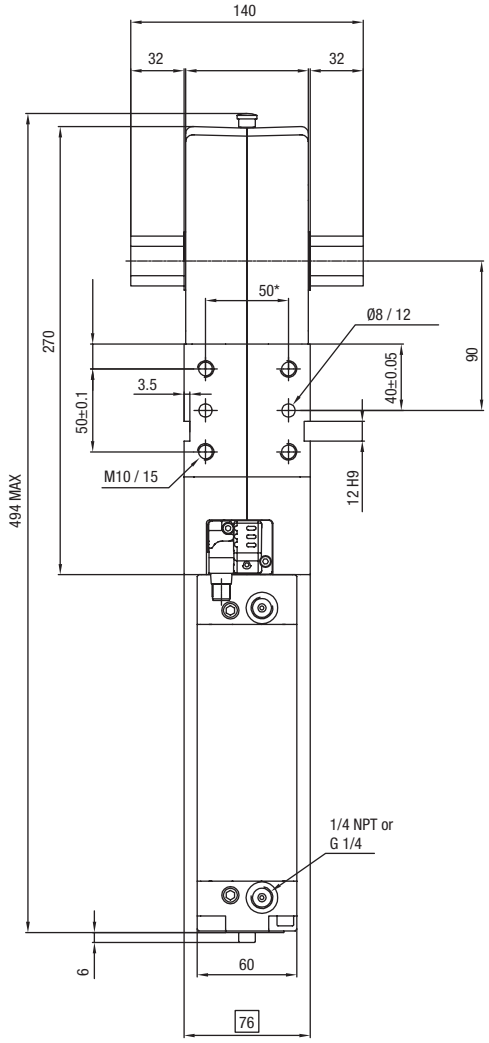
Dimensional Drawing - UNM63NNE_ Pneumatic Power Clamp with Manual Lever

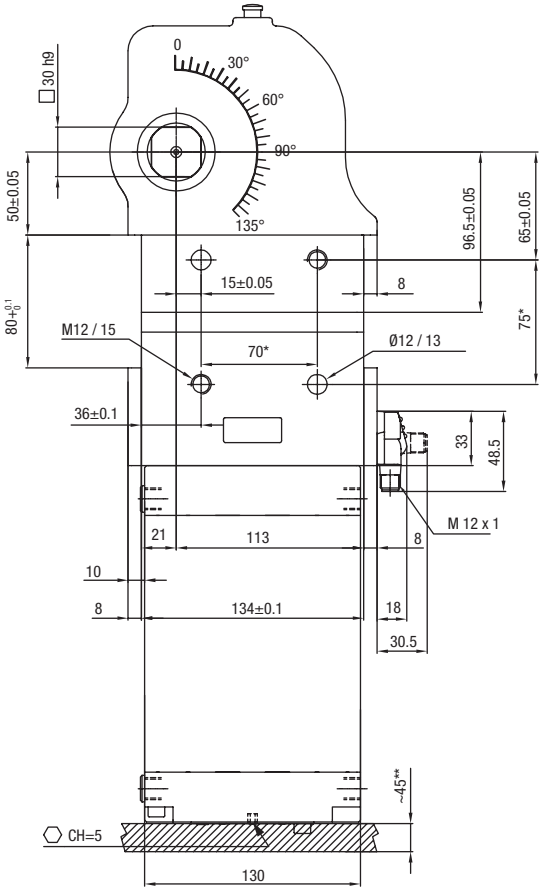


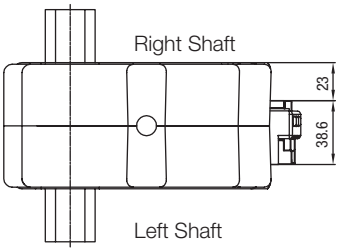
* Tolerance between dowel holes ± 0.02, to screw holes ± 0.1
** The measures refer to NAAMS standard
*** Area to access angle adjustment
**** Dimensions to be respected in case other manual levers are used

Dimensions: mm

Dimensional Drawing - UNP80N_E Pneumatic Power Clamp





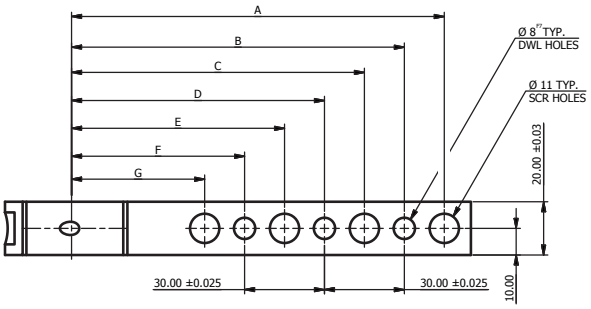


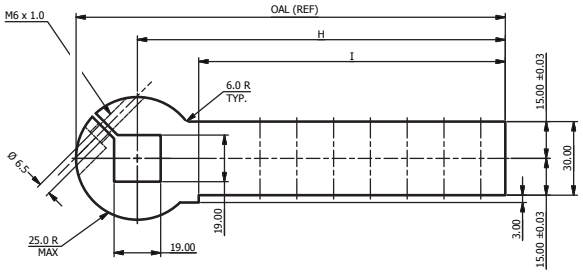
* Tolerance between dowel holes ± 0.02, to screw holes ± 0.1
** Area to access angle adjustment

Dimensions: mm

Dimensional Drawing - UNP50 - NAAMS Arm - 19mm, Offset 0mm

Material: Aluminum

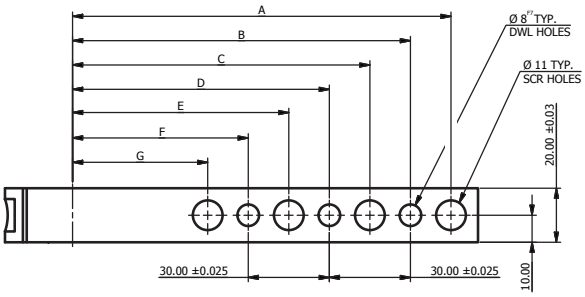


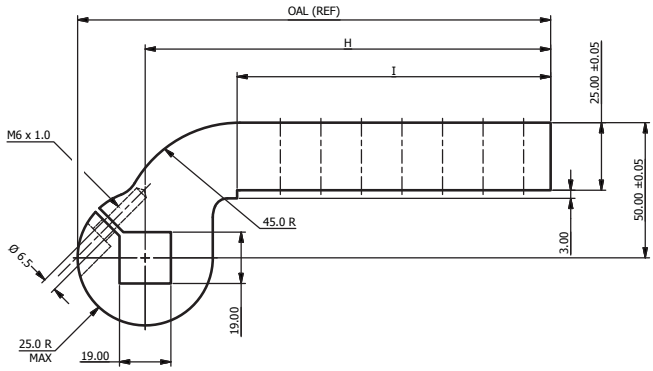


Part Number	NAAMS Code	A +1.5/-0	B	C	D	E	F	G	H	I	OAL (Ref)	Weight Kg
N206M	ACA206M	80.0	65.0	50.0	-	-	-	-	90.0	65.0	115.0	0.4
N207M	ACA207M	110.0	95.0	80.0	65.0	50.0	-	-	120.0	95.0	145.0	0.5
N208M	ACA208M	140.0	125.0	110.0	95.0	80.0	65.0	50.0	150.0	125.0	175.0	0.6

Dimensions: mm

Dimensional Drawing - UNP50 - NAAMS Arm - 19mm, Offset 25mm

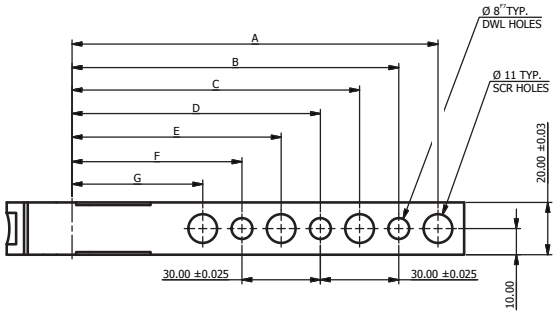


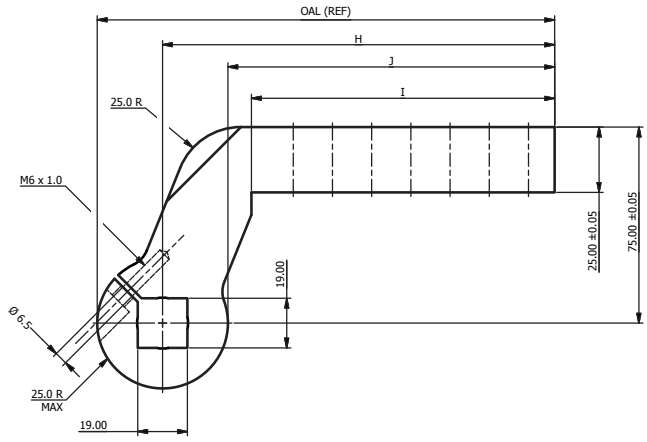


Part Number	NAAMS Code	A +1.5/-0	B	C	D	E	F	G	H	I	OAL (Ref)	Weight Kg
N216M	ACA216M	80.0	65.0	50.0	-	-	-	-	90.0	56.0	115.0	0.5
N217M	ACA217M	110.0	95.0	80.0	65.0	50.0	-	-	120.0	86.0	145.0	0.6
N218M	ACA218M	140.0	125.0	110.0	95.0	80.0	65.0	50.0	150.0	116.0	175.0	0.7

Dimensions: mm

Dimensional Drawing - UNP50 - NAAMS Arm - 19mm, Offset 50mm

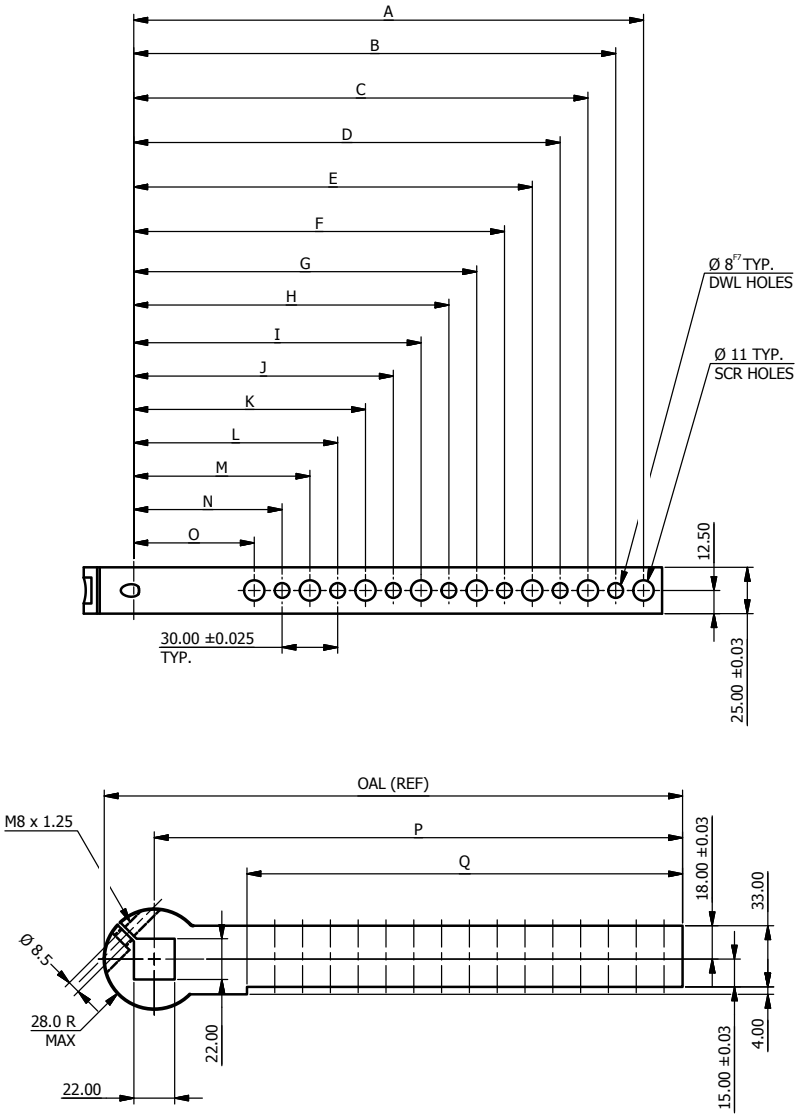




Part Number	NAAMS Code	A +1.5/-0	B	C	D	E	F	G	H	I	J	OAL (Ref)	Weight Kg
N226M	ACA226M	80.0	65.0	50.0	-	-	-	-	90.0	60.0	56.0	115.0	0.6
N227M	ACA227M	110.0	95.0	80.0	65.0	50.0	-	-	120.0	90.0	86.0	145.0	0.7
N228M	ACA228M	140.0	125.0	110.0	95.0	80.0	65.0	50.0	150.0	120.0	116.0	175.0	0.8

Dimensions: mm

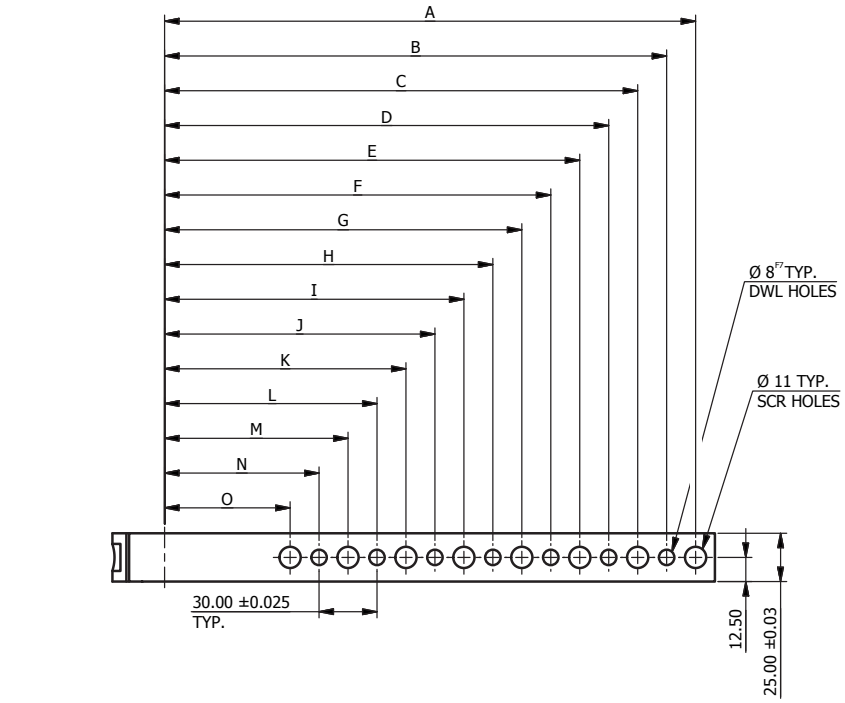
Dimensional Drawing - UNP63 - NAAMS Arm - 22mm, Offset 0mm

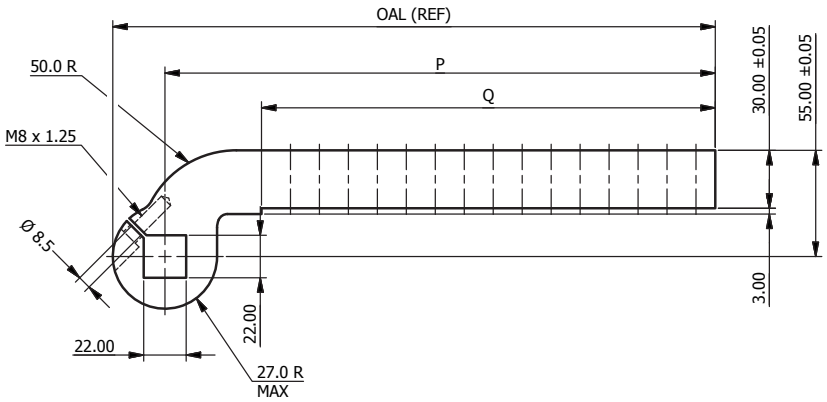


Part Number	NAAMS Code	A +1.5/-0	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	OAL (Ref)	Weight Kg
N007M	ACA007M	125.0	110.0	95.0	80.0	65.0	-	-	-	-	-	-	-	-	-	-	135.0	85.0	163.0	1.0
N008M	ACA008M	155.0	140.0	125.0	110.0	95.0	80.0	65.0	-	-	-	-	-	-	-	-	165.0	115.0	193.0	1.2
N009M	ACA009M	185.0	170.0	155.0	140.0	125.0	110.0	95.0	80.0	65.0	-	-	-	-	-	-	195.0	145.0	223.0	1.3
N010M	ACA010M	215.0	200.0	185.0	170.0	155.0	140.0	125.0	110.0	95.0	80.0	65.0	-	-	-	-	225.0	175.0	253.0	1.4
N011M	ACA011M	245.0	230.0	215.0	200.0	185.0	170.0	155.0	140.0	125.0	110.0	95.0	80.0	65.0	-	-	255.0	205.0	283.0	1.6
N012M	ACA012M	275.0	260.0	245.0	230.0	215.0	200.0	185.0	170.0	155.0	140.0	125.0	110.0	95.0	80.0	65.0	285.0	235.0	313.0	1.8

Dimensions: mm

Dimensional Drawing - UNP63 - NAAMS Arm - 22mm, Offset 25mm

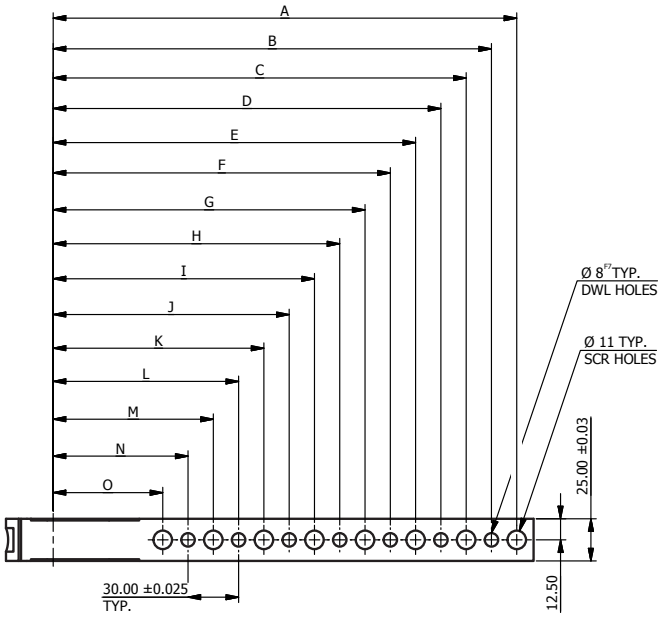


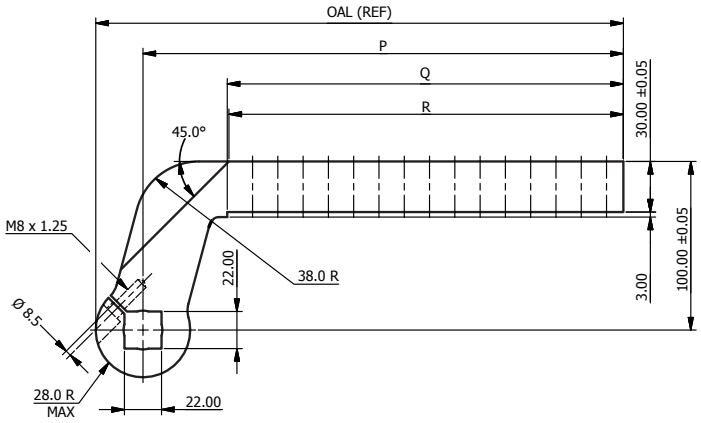


Part Number	NAAMS Code	A +1.5/-0	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	OAL (Ref)	Weight Kg
N019M	ACA019M	125.0	110.0	95.0	80.0	65.0	-	-	-	-	-	-	-	-	-	-	135.0	85.0	163.0	1.1
N020M	ACA020M	155.0	140.0	125.0	110.0	95.0	80.0	65.0	-	-	-	-	-	-	-	-	165.0	115.0	193.0	1.3
N021M	ACA021M	185.0	170.0	155.0	140.0	125.0	110.0	95.0	80.0	65.0	-	-	-	-	-	-	195.0	145.0	223.0	1.4
N022M	ACA022M	215.0	200.0	185.0	170.0	155.0	140.0	125.0	110.0	95.0	80.0	65.0	-	-	-	-	225.0	175.0	253.0	1.5
N023M	ACA023M	245.0	230.0	215.0	200.0	185.0	170.0	155.0	140.0	125.0	110.0	95.0	80.0	65.0	-	-	255.0	205.0	283.0	1.6
N024M	ACA024M	275.0	260.0	245.0	230.0	215.0	200.0	185.0	170.0	155.0	140.0	125.0	110.0	95.0	80.0	65.0	285.0	235.0	313.0	1.9

Dimensions: mm

Dimensional Drawing - UNP63 - NAAMS Arm - 22mm, Offset 70mm

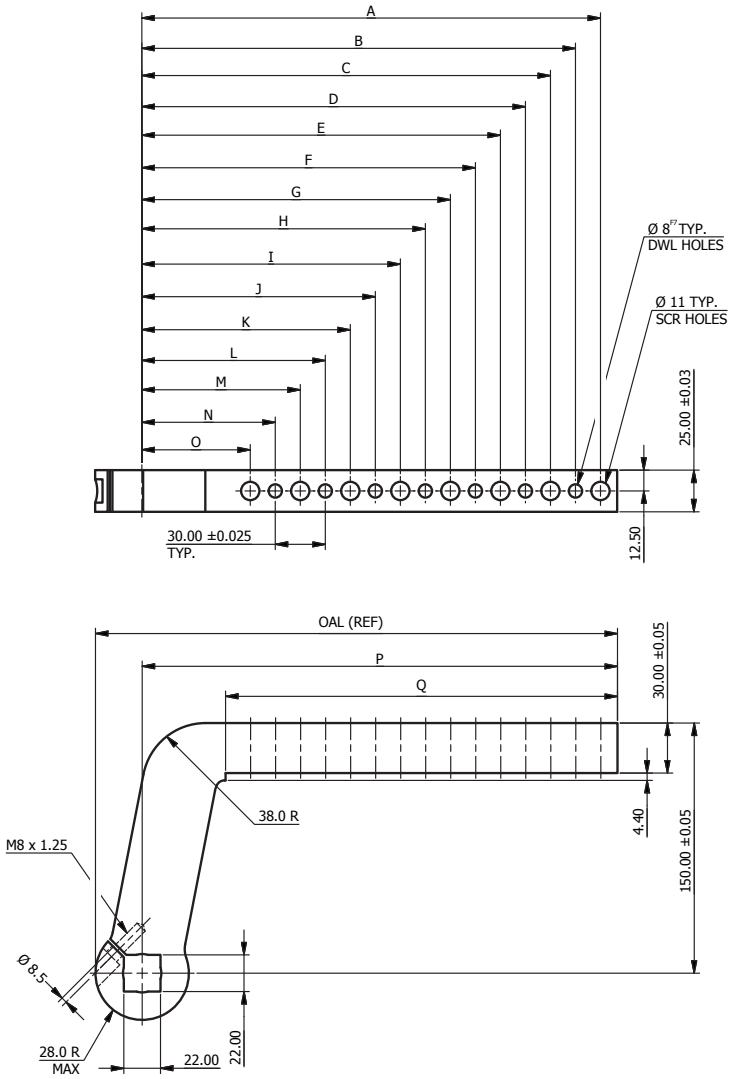




Part Number	NAAMS Code	A +1.5/-0	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	OAL (Ref)	Weight Kg
N031M	ACA031M	125.0	110.0	95.0	80.0	65.0	-	-	-	-	-	-	-	-	-	-	135.0	85.0	84.0	163.0	1.5
N032M	ACA032M	155.0	140.0	125.0	110.0	95.0	80.0	65.0	-	-	-	-	-	-	-	-	165.0	115.0	114.0	193.0	1.7
N033M	ACA033M	185.0	170.0	155.0	140.0	125.0	110.0	95.0	80.0	65.0	-	-	-	-	-	-	195.0	145.0	144.0	223.0	1.8
N034M	ACA034M	215.0	200.0	185.0	170.0	155.0	140.0	125.0	110.0	95.0	80.0	65.0	-	-	-	-	225.0	175.0	174.0	253.0	1.9
N035M	ACA035M	245.0	230.0	215.0	200.0	185.0	170.0	155.0	140.0	125.0	110.0	95.0	80.0	65.0	-	-	255.0	205.0	204.0	283.0	2.0
N036M	ACA036M	275.0	260.0	245.0	230.0	215.0	200.0	185.0	170.0	155.0	140.0	125.0	110.0	95.0	80.0	65.0	285.0	235.0	234.0	313.0	2.2

Dimensions: mm

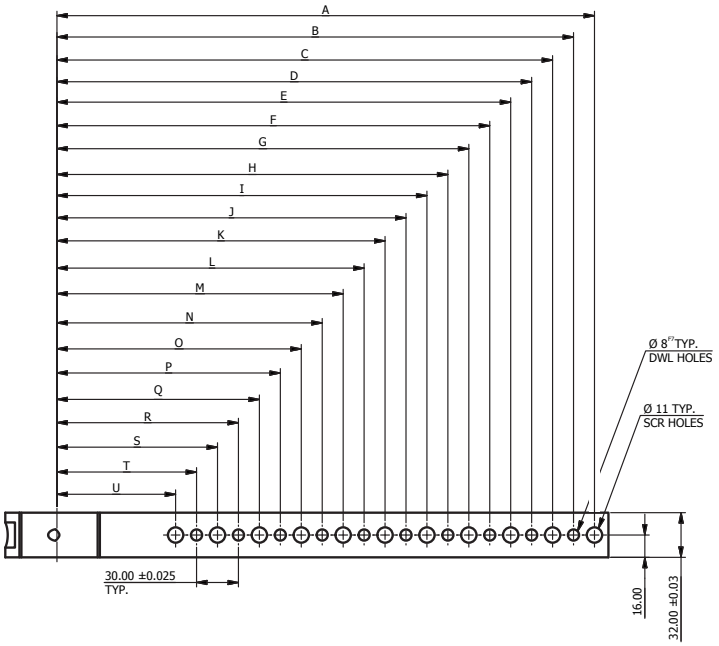
Dimensional Drawing - UNP63 - NAAMS Arm - 22mm, Offset 120mm

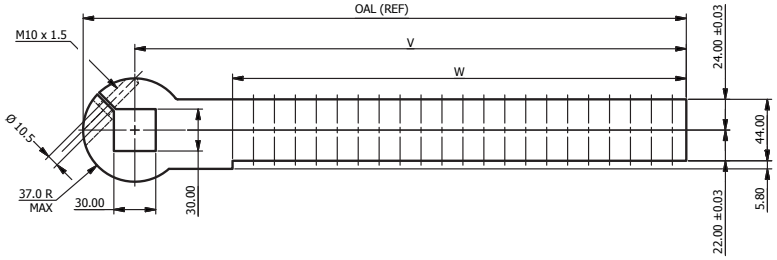


Part Number	NAAMS Code	A +1.5/-0	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	OAL (Ref)	Weight Kg
N043M	ACA043M	125.0	110.0	95.0	80.0	65.0	-	-	-	-	-	-	-	-	-	-	135.0	85.0	163.0	1.9
N044M	ACA044M	155.0	140.0	125.0	110.0	95.0	80.0	65.0	-	-	-	-	-	-	-	-	165.0	115.0	193.0	2.0
N045M	ACA045M	185.0	170.0	155.0	140.0	125.0	110.0	95.0	80.0	65.0	-	-	-	-	-	-	195.0	145.0	223.0	2.1
N046M	ACA046M	215.0	200.0	185.0	170.0	155.0	140.0	125.0	110.0	95.0	80.0	65.0	-	-	-	-	225.0	175.0	253.0	2.2
N047M	ACA047M	245.0	230.0	215.0	200.0	185.0	170.0	155.0	140.0	125.0	110.0	95.0	80.0	65.0	-	-	255.0	205.0	283.0	2.4
N048M	ACA048M	275.0	260.0	245.0	230.0	215.0	200.0	185.0	170.0	155.0	140.0	125.0	110.0	95.0	80.0	65.0	285.0	235.0	313.0	2.6

Dimensions: mm

Dimensional Drawing - UNP80 - NAAMS Arm - 30mm, Offset 0mm

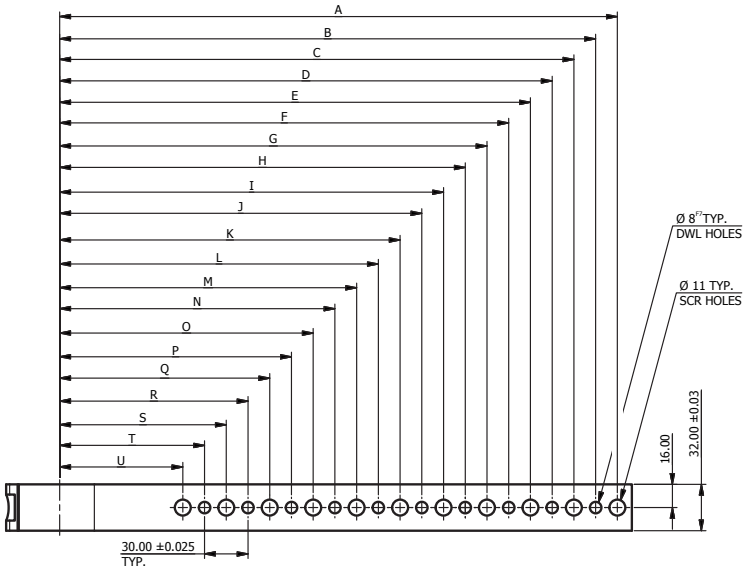


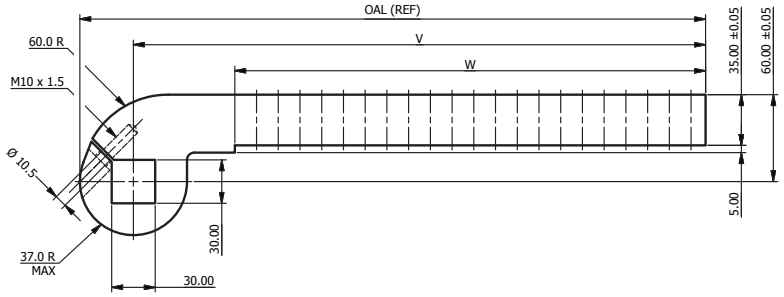


Part Number	NAAMS Code	A +1.5/-0	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	OAL (Ref)	Weight Kg
N110M	ACA110M	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	155.0	85.0	192.0	1.9
N111M	ACA111M	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	185.0	115.0	222.0	2.2
N112M	ACA112M	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	-	-	-	-	-	-	215.0	145.0	252.0	2.4
N113M	ACA113M	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	-	-	-	-	245.0	175.0	282.0	2.7
N114M	ACA114M	265.0	250.0	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	-	-	275.0	205.0	312.0	3.0
N115M	ACA115M	295.0	280.0	265.0	250.0	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	305.0	235.0	342.0	3.2
N116M	ACA116M	325.0	310.0	295.0	280.0	265.0	250.0	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	335.0	265.0	372.0	3.6
N117M	ACA117M	355.0	340.0	325.0	310.0	295.0	280.0	265.0	250.0	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	365.0	295.0	402.0	3.9
N118M	ACA118M	385.0	370.0	355.0	340.0	325.0	310.0	295.0	280.0	265.0	250.0	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	395.0	325.0	432.0	4.1

Dimensions: mm

Dimensional Drawing - UNP80 - NAAMS Arm - 30mm, Offset 25mm

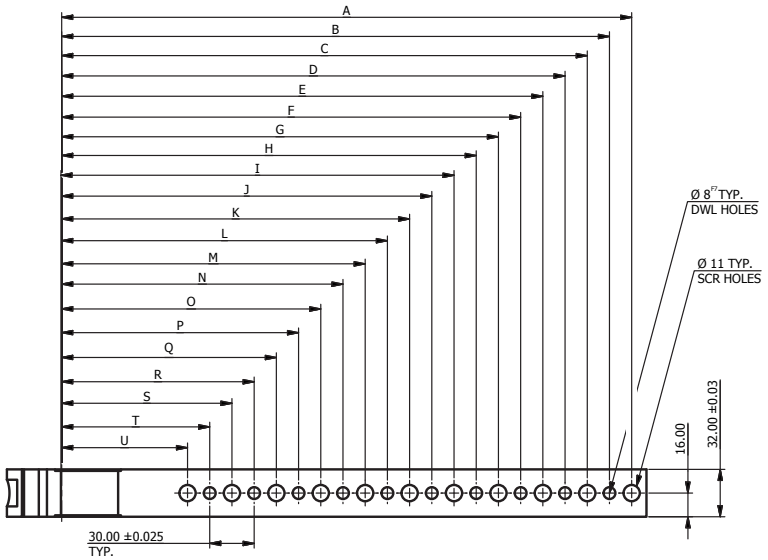


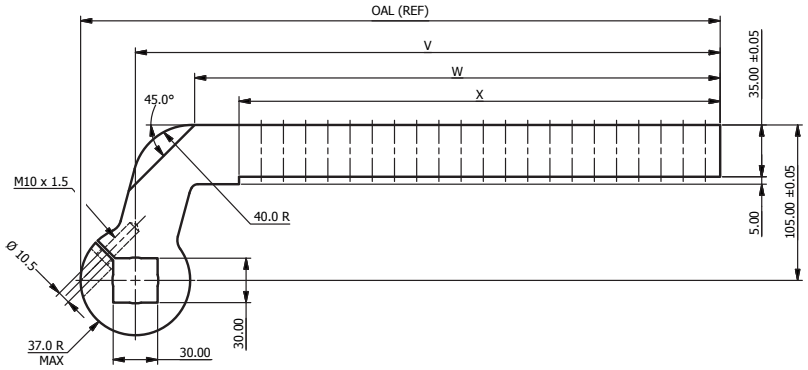


Part Number	NAAMS Code	A +1.5/-0	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	OAL (Ref)	Weight Kg
N130M	ACA130M	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	155.0	85.0	192.0	2.1
N131M	ACA131M	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	185.0	115.0	222.0	2.3
N132M	ACA132M	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	-	-	-	-	-	-	215.0	145.0	252.0	2.5
N133M	ACA133M	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	-	-	-	-	245.0	175.0	282.0	2.7
N134M	ACA134M	265.0	250.0	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	-	-	275.0	205.0	312.0	3.0
N135M	ACA135M	295.0	280.0	265.0	250.0	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	305.0	235.0	342.0	3.2
N136M	ACA136M	325.0	310.0	295.0	280.0	265.0	250.0	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	335.0	265.0	372.0	3.4
N137M	ACA137M	355.0	340.0	325.0	310.0	295.0	280.0	265.0	250.0	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	365.0	295.0	402.0	3.8
N138M	ACA138M	385.0	370.0	355.0	340.0	325.0	310.0	295.0	280.0	265.0	250.0	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	395.0	325.0	432.0	3.9

Dimensions: mm

Dimensional Drawing - UNP80 - NAAMS Arm - 30mm, Offset 70mm

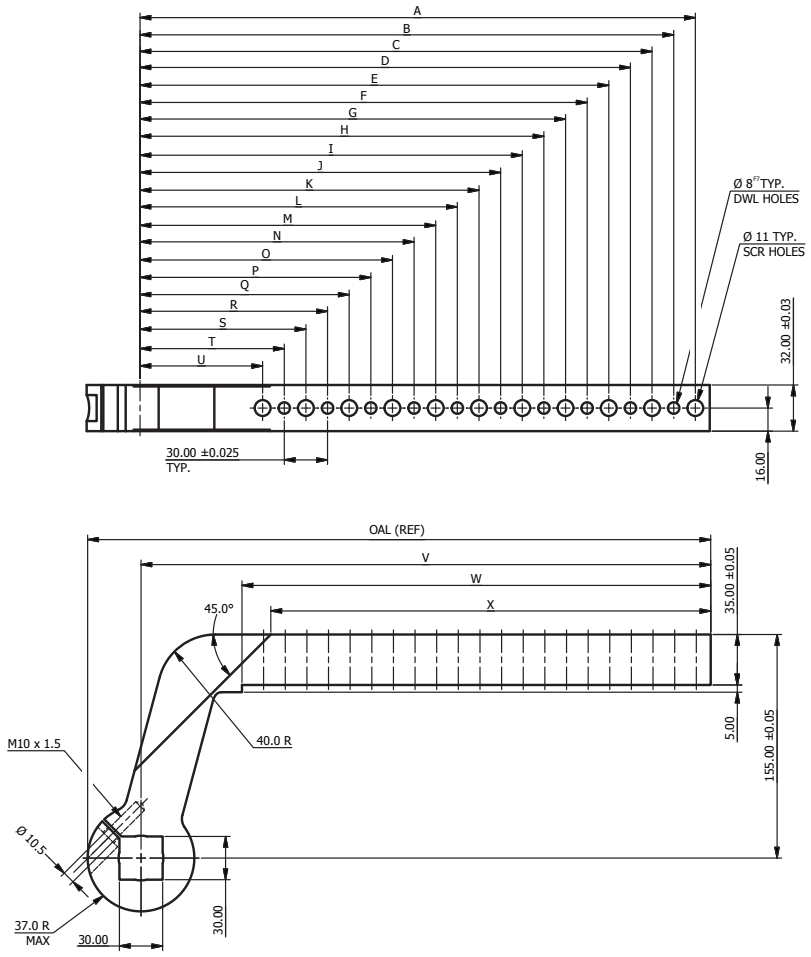




Part Number	NAAMS Code	A +1.5/-0	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	OAL (Ref)	Weight Kg
N150M	ACA150M	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	155.0	115.0	85.0	192.0	2.4
N151M	ACA151M	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	185.0	145.0	115.0	222.0	2.6
N152M	ACA152M	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	-	-	-	-	-	-	215.0	175.0	145.0	252.0	2.8
N153M	ACA153M	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	-	-	-	-	245.0	205.0	175.0	282.0	3.0
N154M	ACA154M	265.0	250.0	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	-	-	275.0	235.0	205.0	312.0	3.3
N155M	ACA155M	295.0	280.0	265.0	250.0	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	305.0	265.0	235.0	342.0	3.5
N156M	ACA156M	325.0	310.0	295.0	280.0	265.0	250.0	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	335.0	295.0	265.0	372.0	3.7
N157M	ACA157M	355.0	340.0	325.0	310.0	295.0	280.0	265.0	250.0	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	365.0	325.0	295.0	402.0	3.9
N158M	ACA158M	385.0	370.0	355.0	340.0	325.0	310.0	295.0	280.0	265.0	250.0	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	395.0	355.0	325.0	432.0	4.2

Dimensions: mm

Dimensional Drawing - UNP80 - NAAMS Arm - 30mm, Offset 120mm



Part Number	NAAMS Code	A +1.5/-0	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	OAL (Ref)	Weight Kg
N170M	ACA170M	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	155.0	85.0	65.0	192.0	2.8
N171M	ACA171M	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	185.0	115.0	95.0	222.0	3.0
N172M	ACA172M	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	-	-	-	-	-	-	215.0	145.0	125.0	252.0	3.2
N173M	ACA173M	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	-	-	-	-	245.0	175.0	155.0	282.0	3.4
N174M	ACA174M	265.0	250.0	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	-	-	275.0	205.0	185.0	312.0	3.7
N175M	ACA175M	295.0	280.0	265.0	250.0	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	-	-	305.0	235.0	215.0	342.0	3.9
N176M	ACA176M	325.0	310.0	295.0	280.0	265.0	250.0	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	-	-	335.0	265.0	245.0	372.0	4.1
N177M	ACA177M	355.0	340.0	325.0	310.0	295.0	280.0	265.0	250.0	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	-	-	365.0	295.0	275.0	402.0	4.3
N178M	ACA178M	385.0	370.0	355.0	340.0	325.0	310.0	295.0	280.0	265.0	250.0	235.0	220.0	205.0	190.0	175.0	160.0	145.0	130.0	115.0	100.0	85.0	395.0	325.0	305.0	432.0	4.6

Note: For more information regarding how to order NAAMS replacement arms, please visit:
http://www.naamsstandards.org/Standards/chapters/assembly/G.pdf

European Specifications for Power Clamp Arms

Numatics uses NAAMS (North American specification) as our standard Power Clamp arm. Additionally, we do offer the European specification for Power Clamp arms, please see the tables below for these part numbers. For more information regarding the European specification, please contact our customer support team at (248)596-3200.

UNP50 NAAMS European Standard Arms - 19mm

Part Number	NAAMS Code	Description
N206ME	ACA236M	NAAMS Arm - 19mm, Offset 0mm
N207ME	ACA237M	NAAMS Arm - 19mm, Offset 0mm
N208ME	ACA238M	NAAMS Arm - 19mm, Offset 0mm
N216ME	ACA246M	NAAMS Arm - 19mm, Offset 25mm
N217ME	ACA247M	NAAMS Arm - 19mm, Offset 25mm
N218ME	ACA248M	NAAMS Arm - 19mm, Offset 25mm
N226ME	ACA256M	NAAMS Arm - 19mm, Offset 50mm
N227ME	ACA257M	NAAMS Arm - 19mm, Offset 50mm
N228ME	ACA258M	NAAMS Arm - 19mm, Offset 50mm

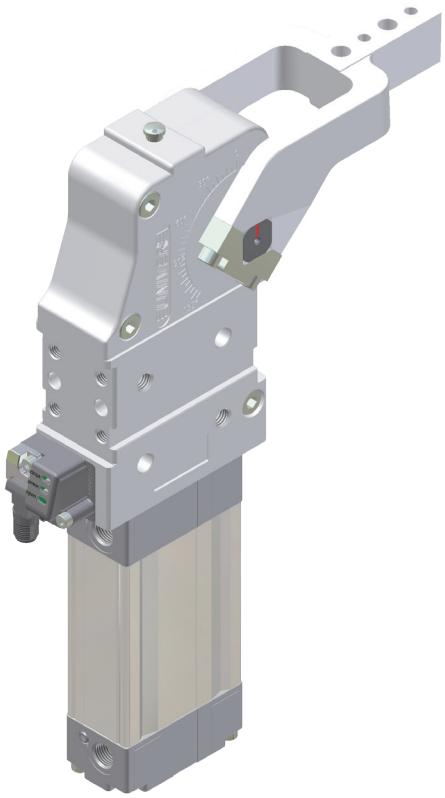
UNP63 NAAMS European Standard Arms - 22mm

Part Number	NAAMS Code	Description
N007ME	GCA007M	NAAMS Arm - 22mm, Offset 0mm
N008ME	GCA008M	NAAMS Arm - 22mm, Offset 0mm
N009ME	GCA009M	NAAMS Arm - 22mm, Offset 0mm
N010ME	GCA010M	NAAMS Arm - 22mm, Offset 0mm
N011ME	GCA011M	NAAMS Arm - 22mm, Offset 0mm
N012ME	GCA012M	NAAMS Arm - 22mm, Offset 0mm
N019ME	GCA019M	NAAMS Arm - 22mm, Offset 25mm
N020ME	GCA020M	NAAMS Arm - 22mm, Offset 25mm
N021ME	GCA021M	NAAMS Arm - 22mm, Offset 25mm
N022ME	GCA022M	NAAMS Arm - 22mm, Offset 25mm
N023ME	GCA023M	NAAMS Arm - 22mm, Offset 25mm
N024ME	GCA024M	NAAMS Arm - 22mm, Offset 25mm
N031ME	GCA031M	NAAMS Arm - 22mm, Offset 70mm
N032ME	GCA032M	NAAMS Arm - 22mm, Offset 70mm
N033ME	GCA033M	NAAMS Arm - 22mm, Offset 70mm
N034ME	GCA034M	NAAMS Arm - 22mm, Offset 70mm
N035ME	GCA035M	NAAMS Arm - 22mm, Offset 70mm
N036ME	GCA036M	NAAMS Arm - 22mm, Offset 70mm
N043ME	GCA043M	NAAMS Arm - 22mm, Offset 120mm
N044ME	GCA044M	NAAMS Arm - 22mm, Offset 120mm
N045ME	GCA045M	NAAMS Arm - 22mm, Offset 120mm
N046ME	GCA046M	NAAMS Arm - 22mm, Offset 120mm
N047ME	GCA047M	NAAMS Arm - 22mm, Offset 120mm
N048ME	GCA048M	NAAMS Arm - 22mm, Offset 120mm

UNP80 - NAAMS European Standard Arms - 30mm

Part Number	NAAMS Code	Description
N110ME	GCA0110M	NAAMS Arm - 30mm, Offset 0mm
N111ME	GCA0111M	NAAMS Arm - 30mm, Offset 0mm
N112ME	GCA0112M	NAAMS Arm - 30mm, Offset 0mm
N113ME	GCA0113M	NAAMS Arm - 30mm, Offset 0mm
N114ME	GCA0114M	NAAMS Arm - 30mm, Offset 0mm
N115ME	GCA0115M	NAAMS Arm - 30mm, Offset 0mm
N116ME	GCA0116M	NAAMS Arm - 30mm, Offset 0mm
N117ME	GCA0117M	NAAMS Arm - 30mm, Offset 0mm
N118ME	GCA0118M	NAAMS Arm - 30mm, Offset 0mm
N130ME	GCA0130M	NAAMS Arm - 30mm, Offset 25mm
N131ME	GCA0131M	NAAMS Arm - 30mm, Offset 25mm
N132ME	GCA0132M	NAAMS Arm - 30mm, Offset 25mm
N133ME	GCA0133M	NAAMS Arm - 30mm, Offset 25mm
N134ME	GCA0134M	NAAMS Arm - 30mm, Offset 25mm
N135ME	GCA0135M	NAAMS Arm - 30mm, Offset 25mm
N136ME	GCA0136M	NAAMS Arm - 30mm, Offset 25mm
N137ME	GCA0137M	NAAMS Arm - 30mm, Offset 25mm
N138ME	GCA0138M	NAAMS Arm - 30mm, Offset 25mm
N150ME	GCA0150M	NAAMS Arm - 30mm, Offset 70mm
N151ME	GCA0151M	NAAMS Arm - 30mm, Offset 70mm
N152ME	GCA0152M	NAAMS Arm - 30mm, Offset 70mm
N153ME	GCA0153M	NAAMS Arm - 30mm, Offset 70mm
N154ME	GCA0154M	NAAMS Arm - 30mm, Offset 70mm
N155ME	GCA0155M	NAAMS Arm - 30mm, Offset 70mm
N156ME	GCA0156M	NAAMS Arm - 30mm, Offset 70mm
N157ME	GCA0157M	NAAMS Arm - 30mm, Offset 70mm
N158ME	GCA0158M	NAAMS Arm - 30mm, Offset 70mm
N170ME	GCA0170M	NAAMS Arm - 30mm, Offset 120mm
N171ME	GCA0171M	NAAMS Arm - 30mm, Offset 120mm
N172ME	GCA0172M	NAAMS Arm - 30mm, Offset 120mm
N173ME	GCA0173M	NAAMS Arm - 30mm, Offset 120mm
N174ME	GCA0174M	NAAMS Arm - 30mm, Offset 120mm
N175ME	GCA0175M	NAAMS Arm - 30mm, Offset 120mm
N176ME	GCA0176M	NAAMS Arm - 30mm, Offset 120mm
N177ME	GCA0177M	NAAMS Arm - 30mm, Offset 120mm
N178ME	GCA0178M	NAAMS Arm - 30mm, Offset 120mm

UB SERIES PNEUMATIC POWER CLAMP



Features

- Blade and foot mounting
- Fully adjustable opening angle
- Opening angle can be set with or without air pressure.
- Unique linkage design ensures positional repeatability.
- Linear and rotary motion guided by roller bearings
- Remains locked in closed position even when air pressure is removed
- Pneumatic ports on both sides of the actuator
- Manual release button to open mechanism when air pressure is removed
- Unique “programmable” all metal sensor with M12 swivel connector

General Specifications

Weight:
UPB32: 1.3 Kg (2.9lbs.)
UBH40: 1.7 Kg (3.7 lbs.)
UBP50: 3.2 Kg (7.1 lbs.)
UBP63: 3.6 Kg (7.9 lbs.)
UBP80: 11.5 Kg (25.4 lbs.)

Operating Pressure:
UBP32: 4 Bar (58 PSIG)
Minimum: 2.75 Bar (40 PSIG)
Maximum: 8 Bar (115 PSIG)

Operating Temperature: 5˚ to 45˚ C (40˚ to 113˚F)

Class Protection: IP65

Opening Angles:
All Clamps: Fully adjustable from 0˚ to 135˚

Holding Capacity:
UB_32: 250 Nm (2,212 in-lbs)
UB_40: 600 Nm (5,310 in-lbs)
UB_50: 1250 Nm (11,063 in-lbs)
UB_63: 1750 Nm (15,488 in-lbs)
UB_80: 4000 Nm (35,402 in-lbs)

How to Order

UB Series Pneumatic Power Clamp

UB P 63 V C E

Series
UB = UNIVERSAL power clamps fully adjustable opening angle

Version
H = Pneumatic standard (40mm)
P = Pneumatic standard (32, 50, 63 & 80mm)
Q = Pneumatic with manual lever (40mm)
M = Pneumatic with manual lever (50, 63 & 80mm)

Bore Size
32 = 32 mm
40 = 40 mm
50 = 50 mm
63 = 63 mm
80 = 80 mm

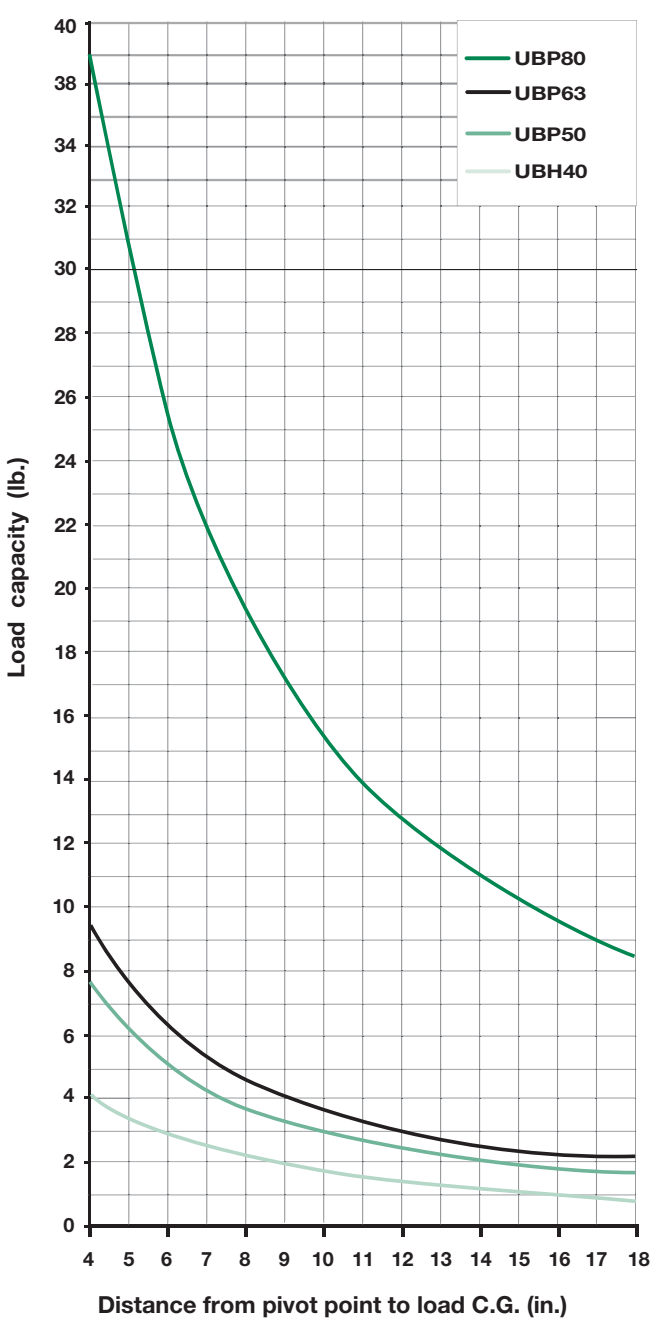
Arm Mount Position
V = 90˚
O = 180˚
N = No arm

Arm Style
C = Central - standard
D = Right - standard
S = Left - standard
O = Central with self-holding system
P = Right with self-holding system
Q = Left with self-holding system
N = No arm

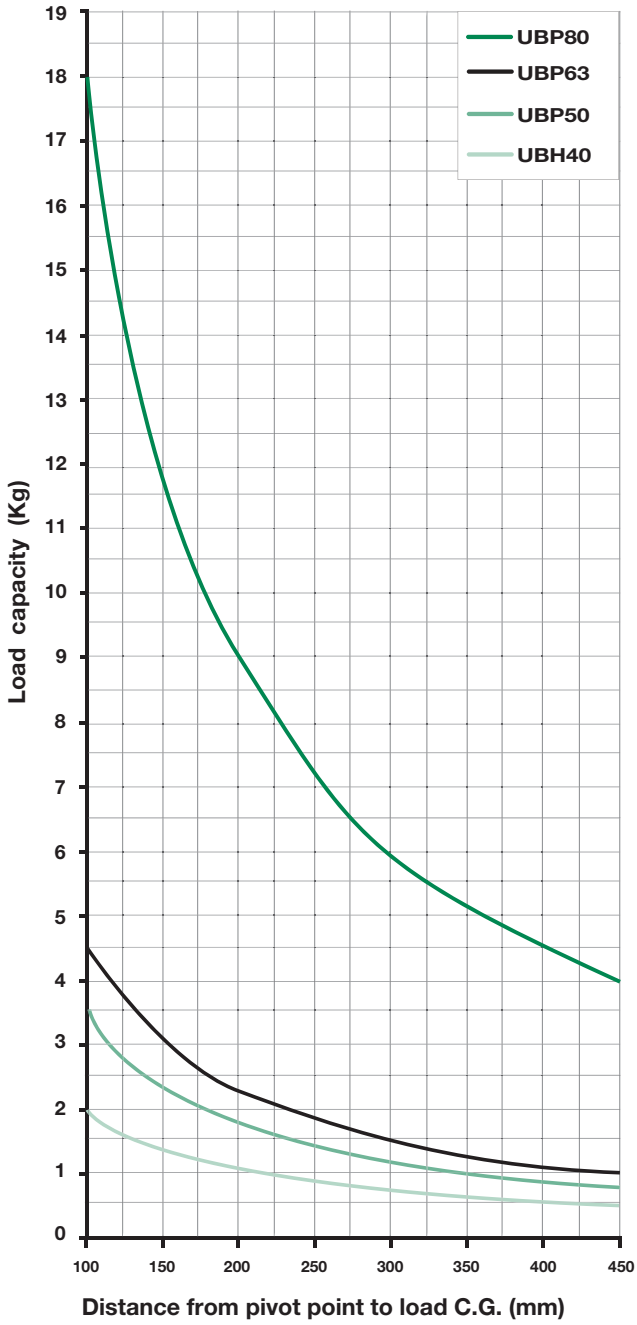
Sensing Style
N = No sensor (with protection plate)
E = Electronic 24 VDC sensor with M12 swivel connector

Maximum Applicable Load

English
operating pressure : 70 PSIG



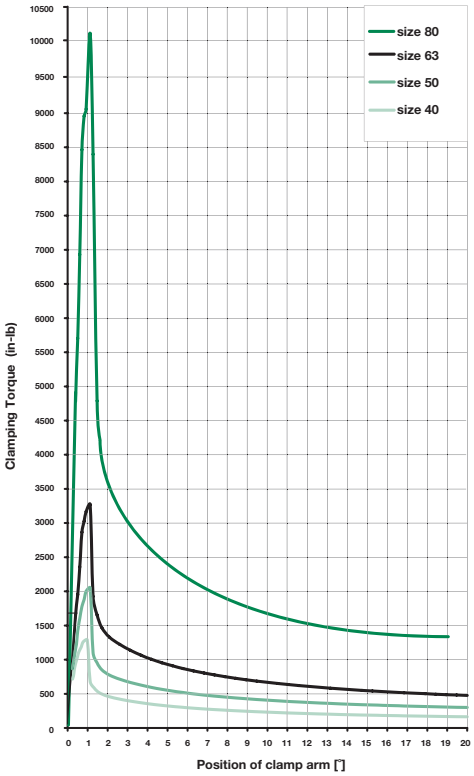
Metric
operating pressure : 5 bar



Maximum Clamping Torque

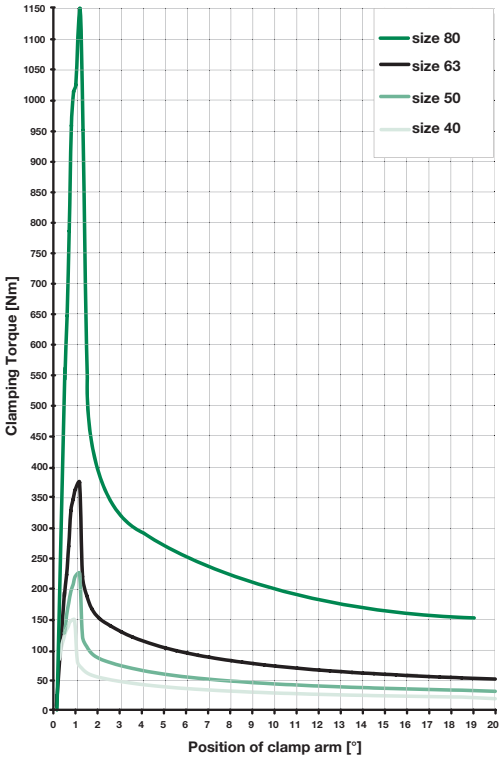
English

operating pressure : 70 PSIG



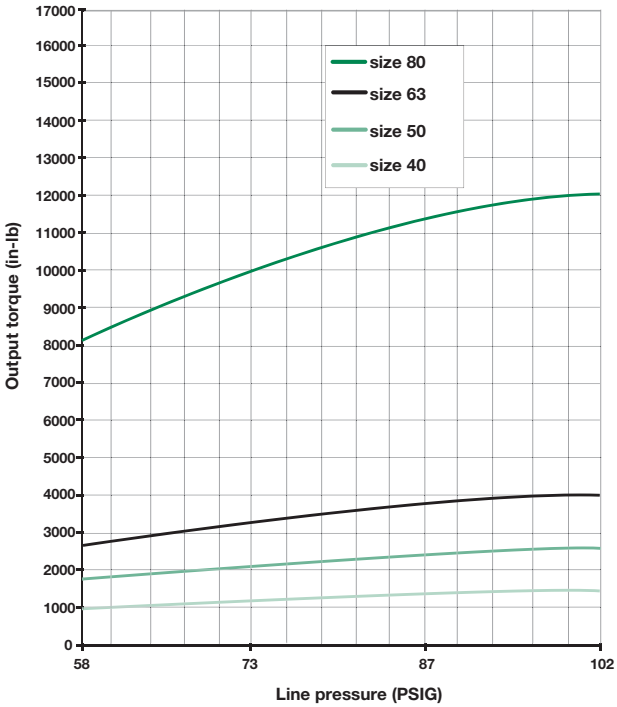
Metric

operating pressure : 5 bar

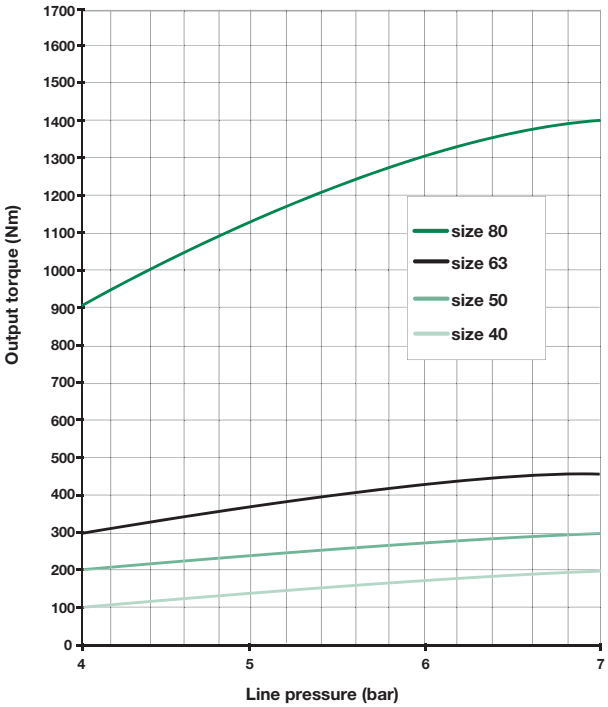


Maximum Output Torque

English

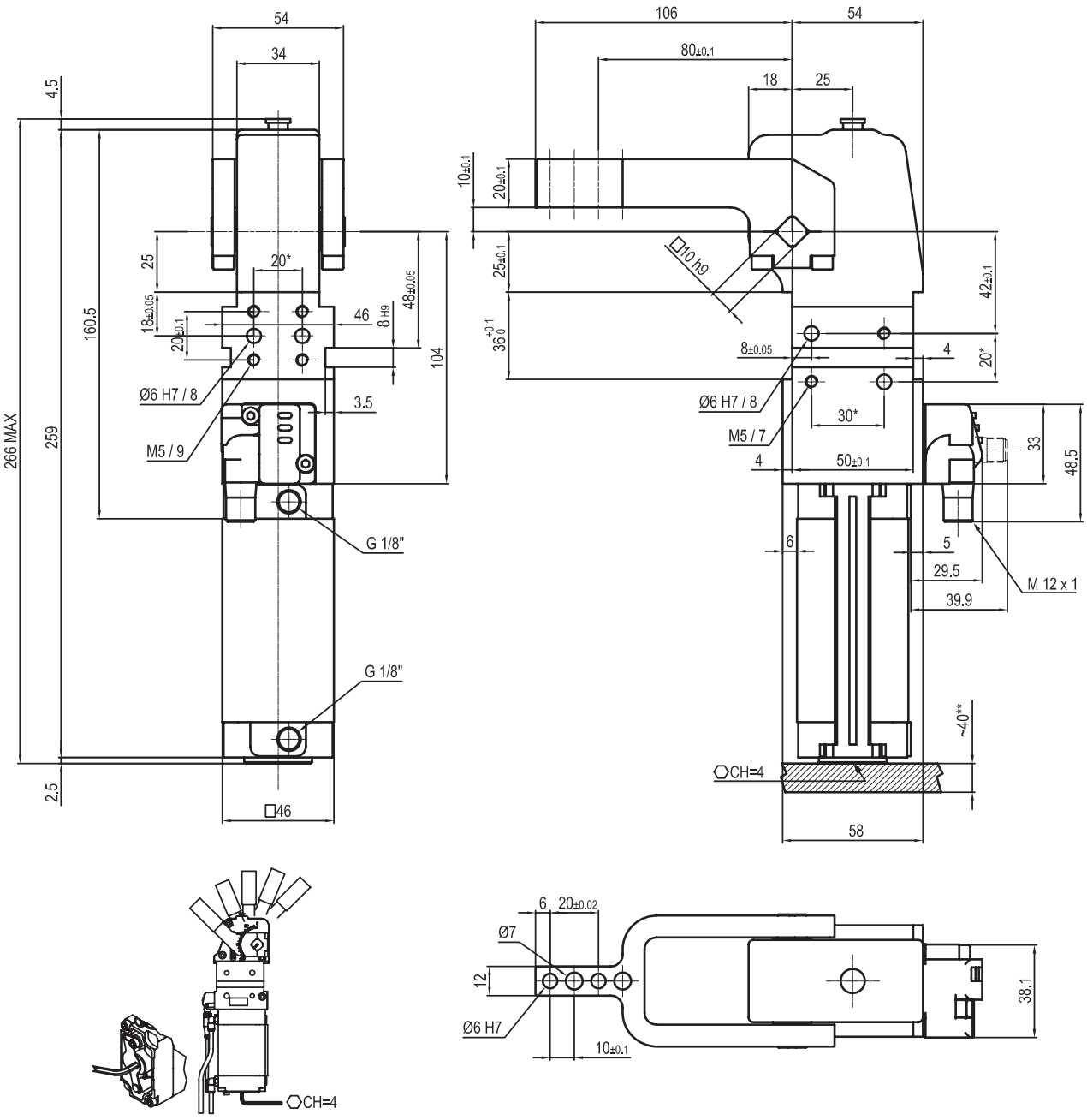


Metric



Dimensions: mm

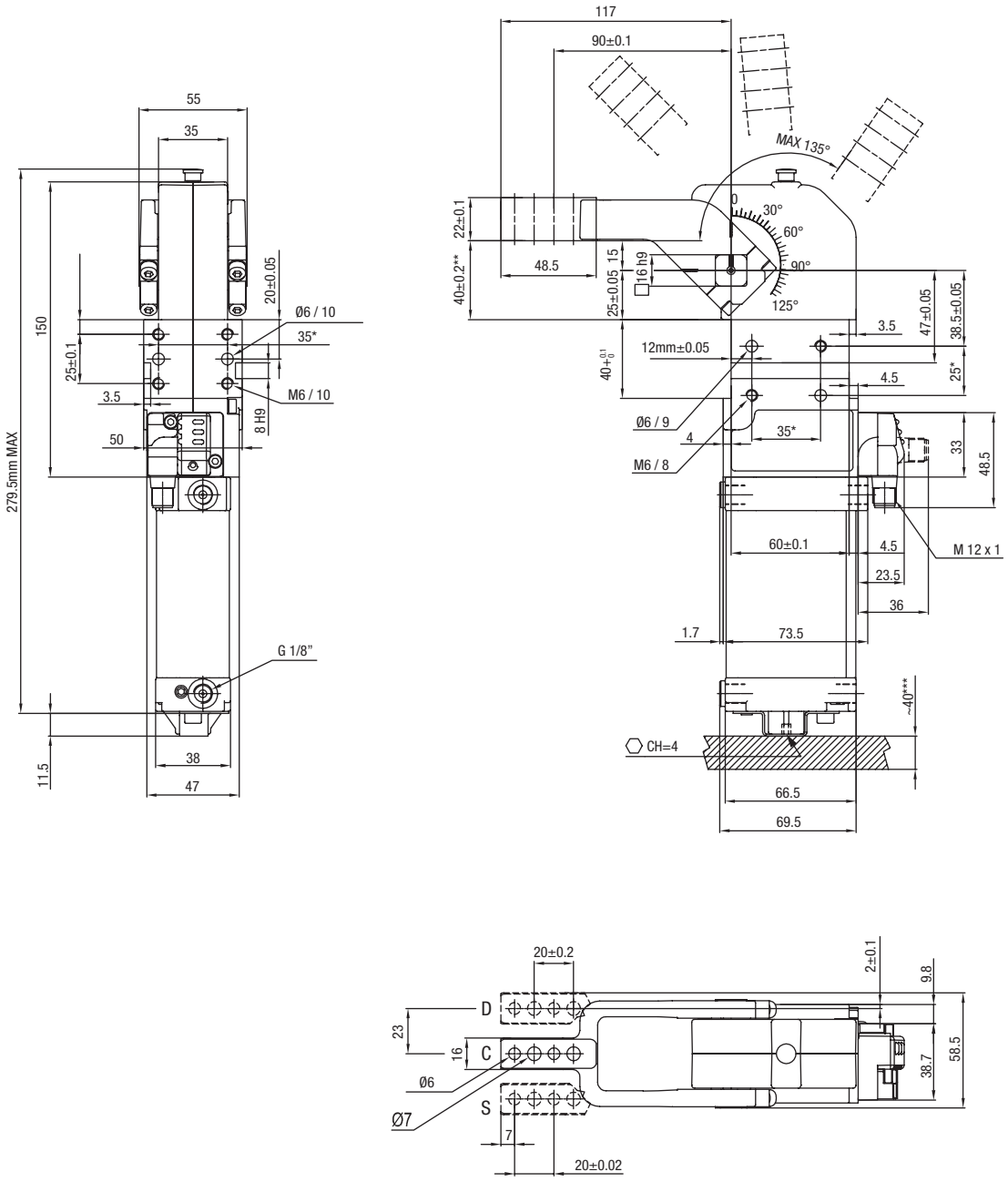
Dimensional Drawing - UBP32VCE Pneumatic Power Clamp



* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Area to access angle adjustment

Dimensions: mm

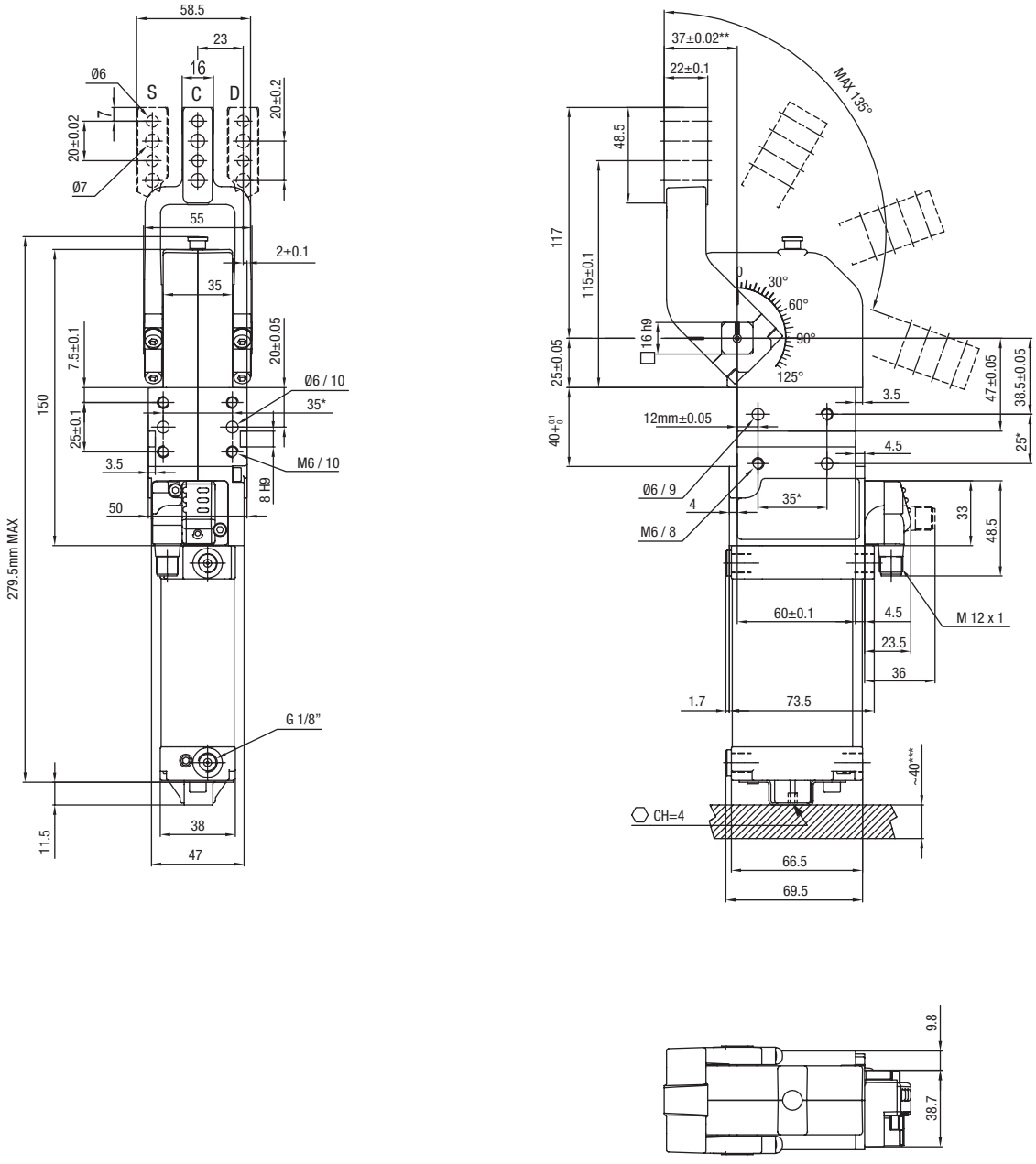
Dimensional Drawing - UBH40V_E Pneumatic Power Clamp



* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment

Dimensions: mm

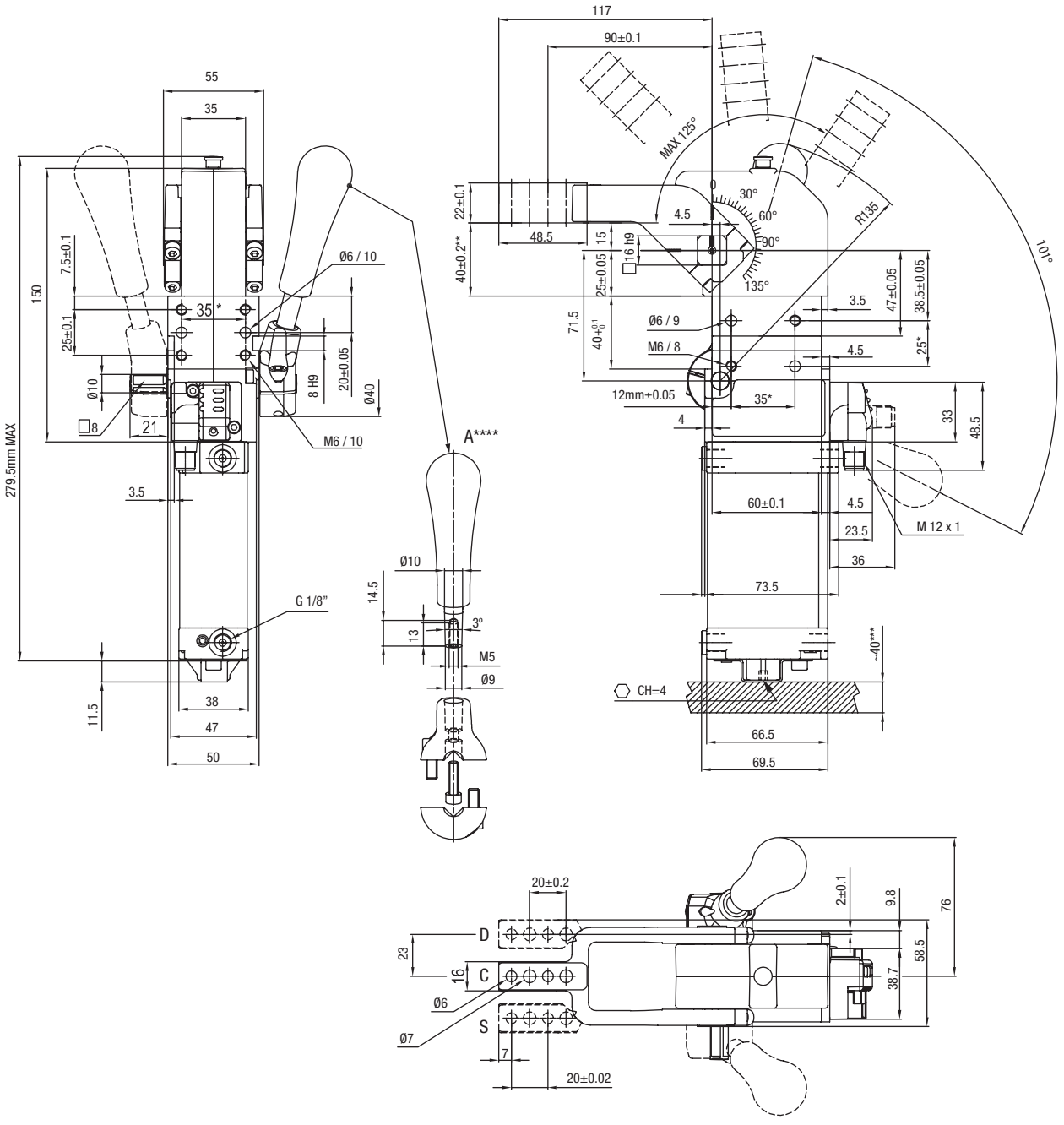
Dimensional Drawing - UBH40O_E Pneumatic Power Clamp



* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment

Dimensions: mm

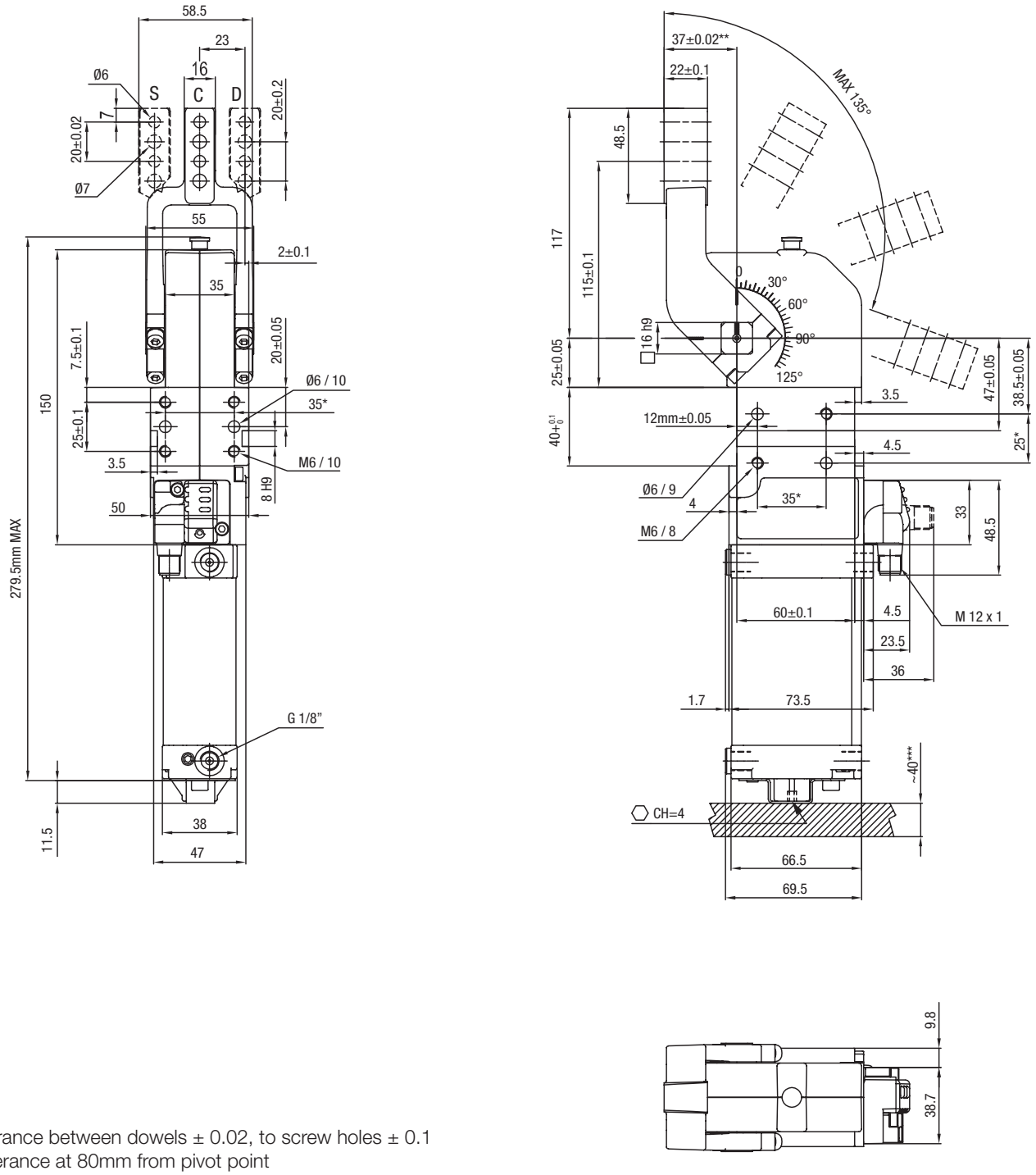
Dimensional Drawing - UBQ40V_E Pneumatic Power Clamp with Manual Lever



* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment
**** Dimensions to be respected in case other manual levers are used

Dimensions: mm

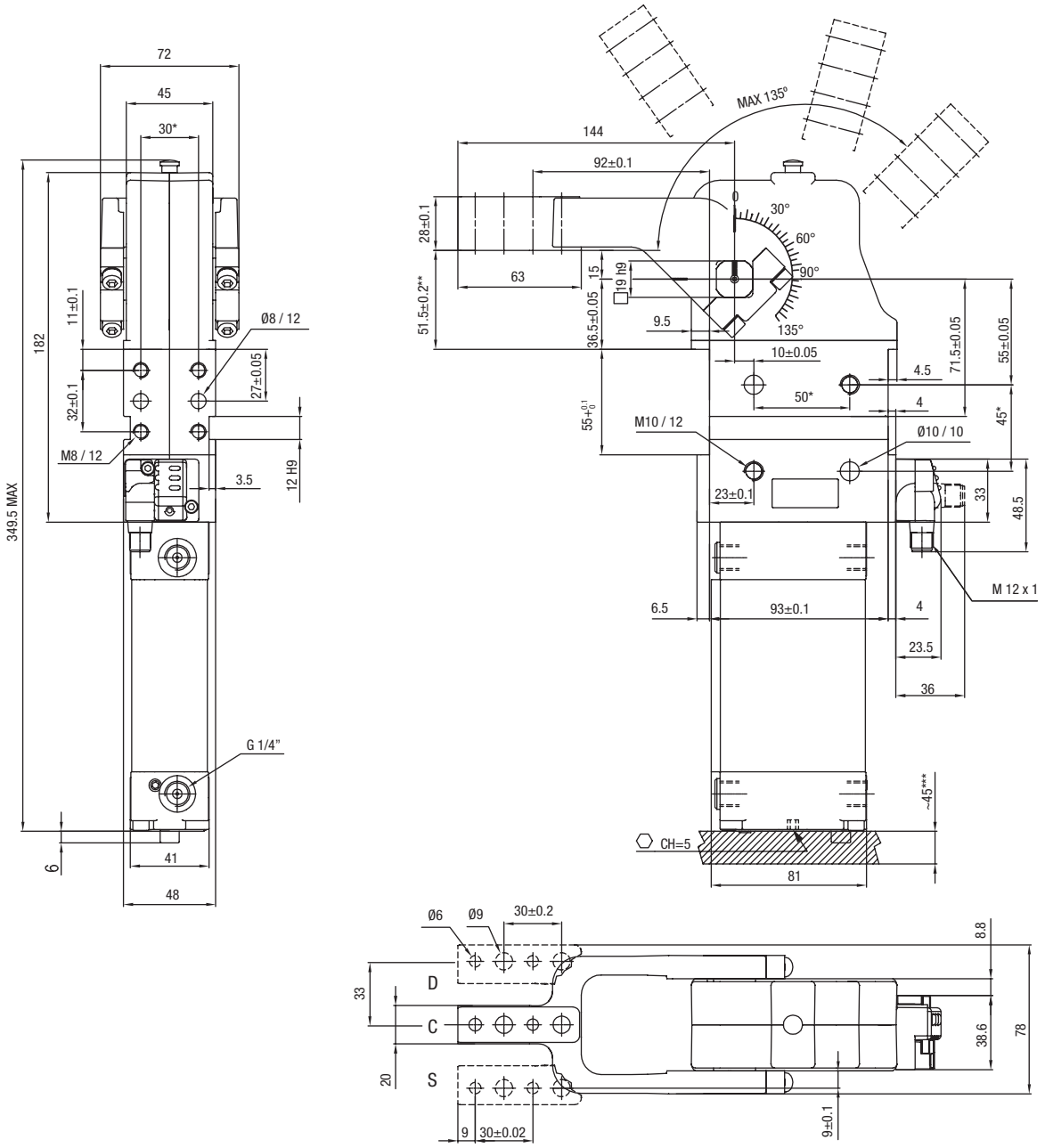
Dimensional Drawing - UBQ40O_E Pneumatic Power Clamp with Manual Lever



* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment
**** Dimensions to be respected in case other manual levers are used

Dimensions: mm

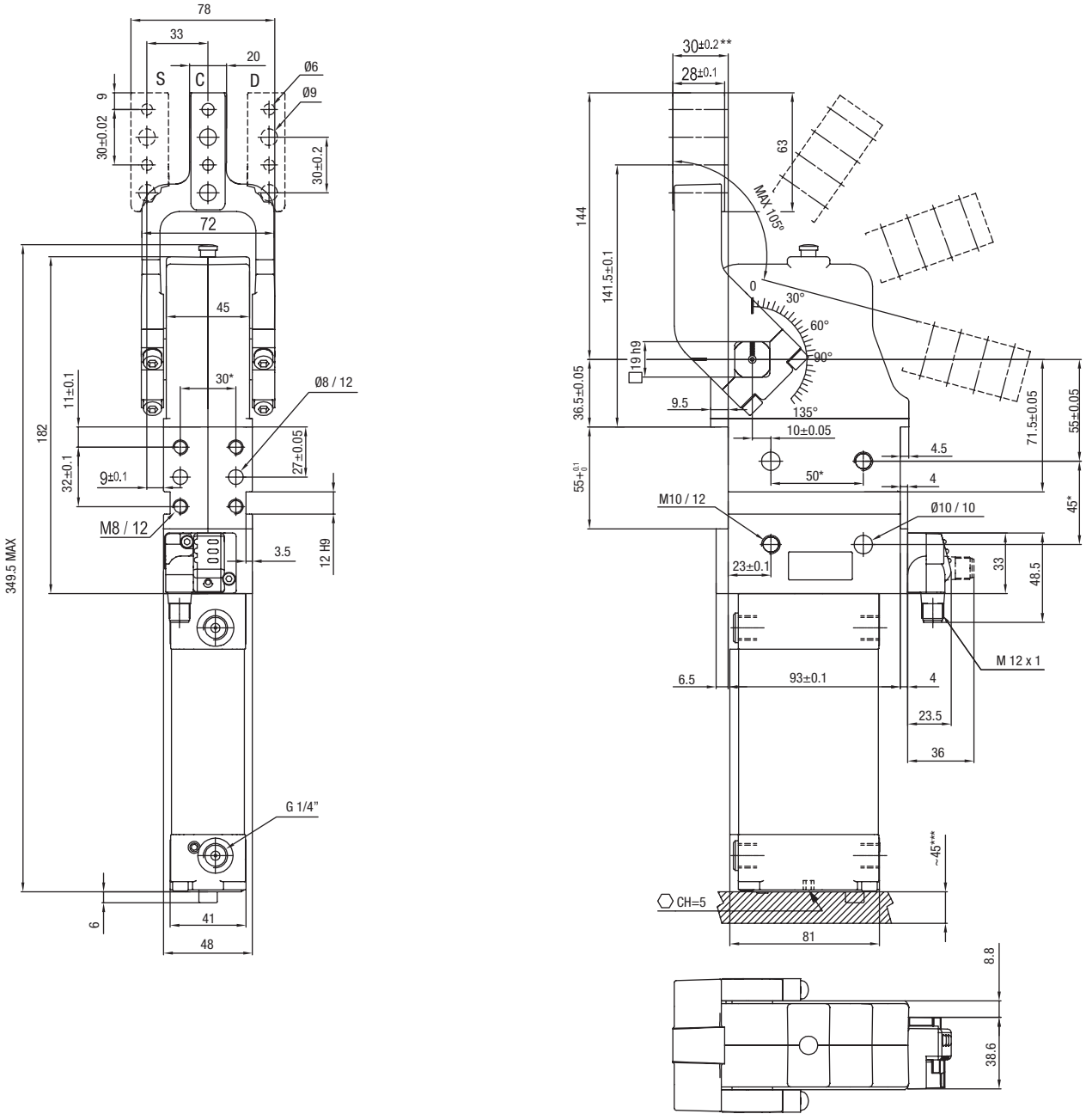
Dimensional Drawing - UBP50V_E Pneumatic Power Clamp



* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment

Dimensions: mm

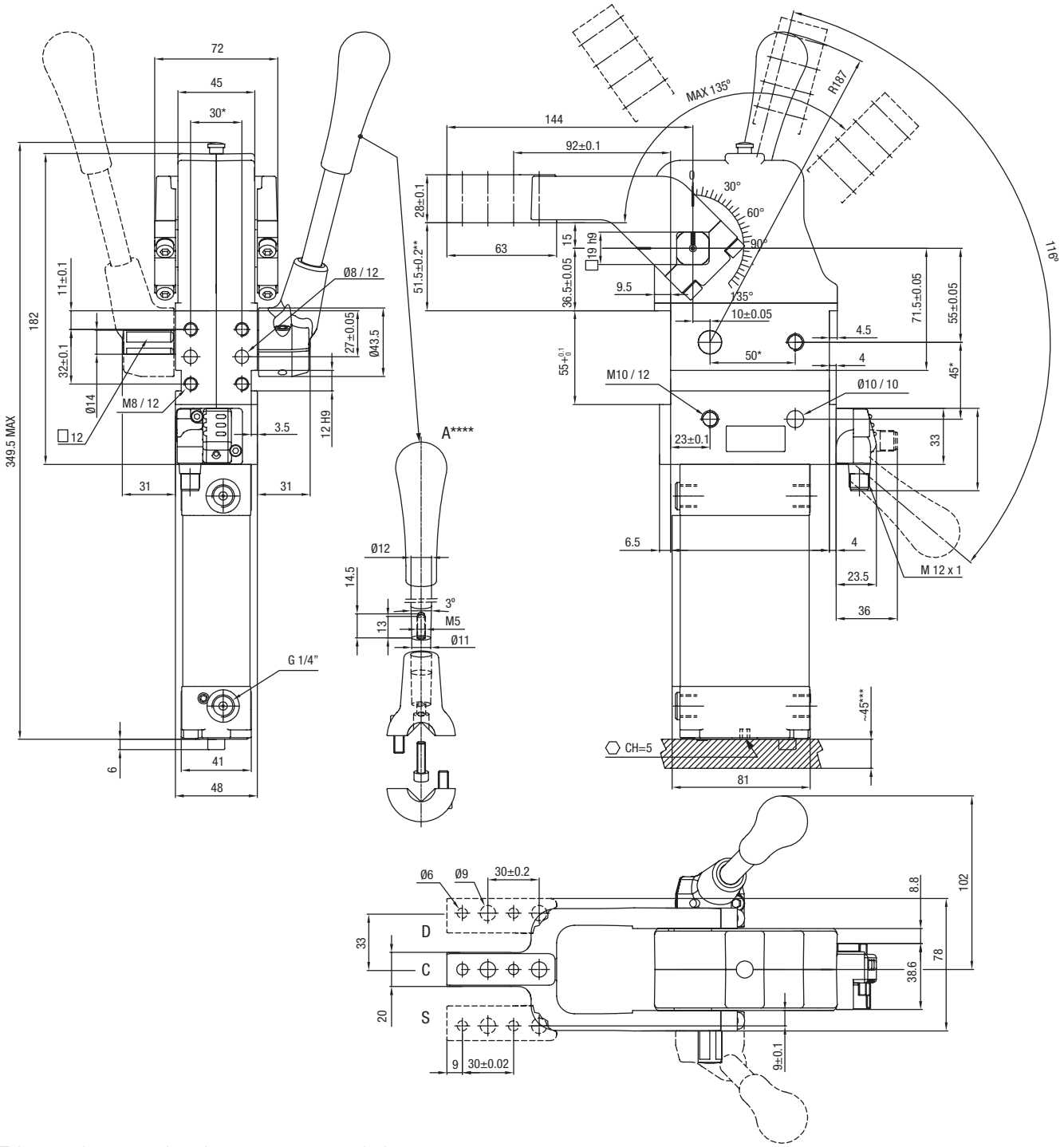
Dimensional Drawing - UBP50O_E Pneumatic Power Clamp



* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment

Dimensions: mm

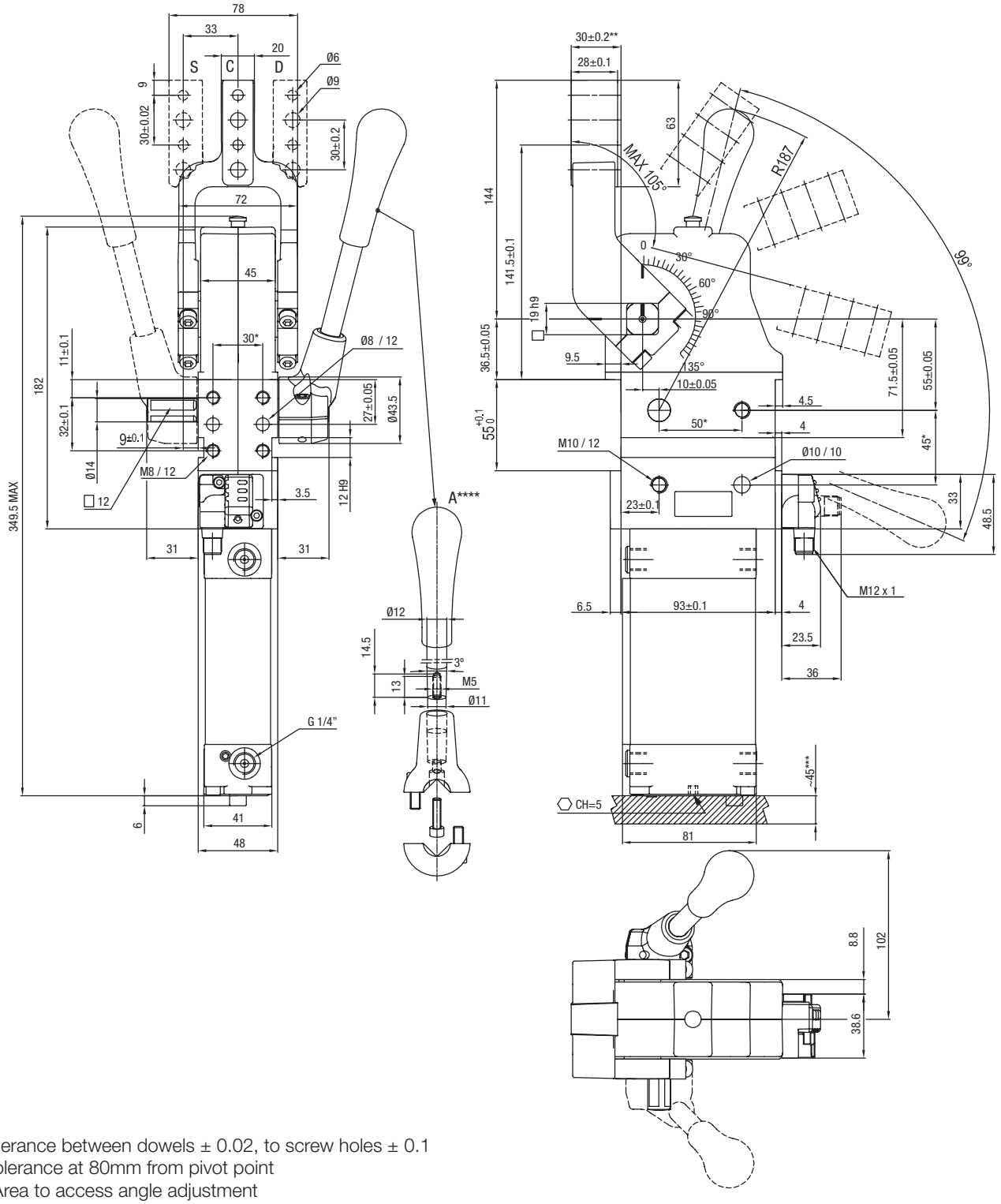
Dimensional Drawing - UBM50V_E Pneumatic Power Clamp with Manual Lever



* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment
**** Dimensions to be respected in case other manual levers are used

Dimensions: mm

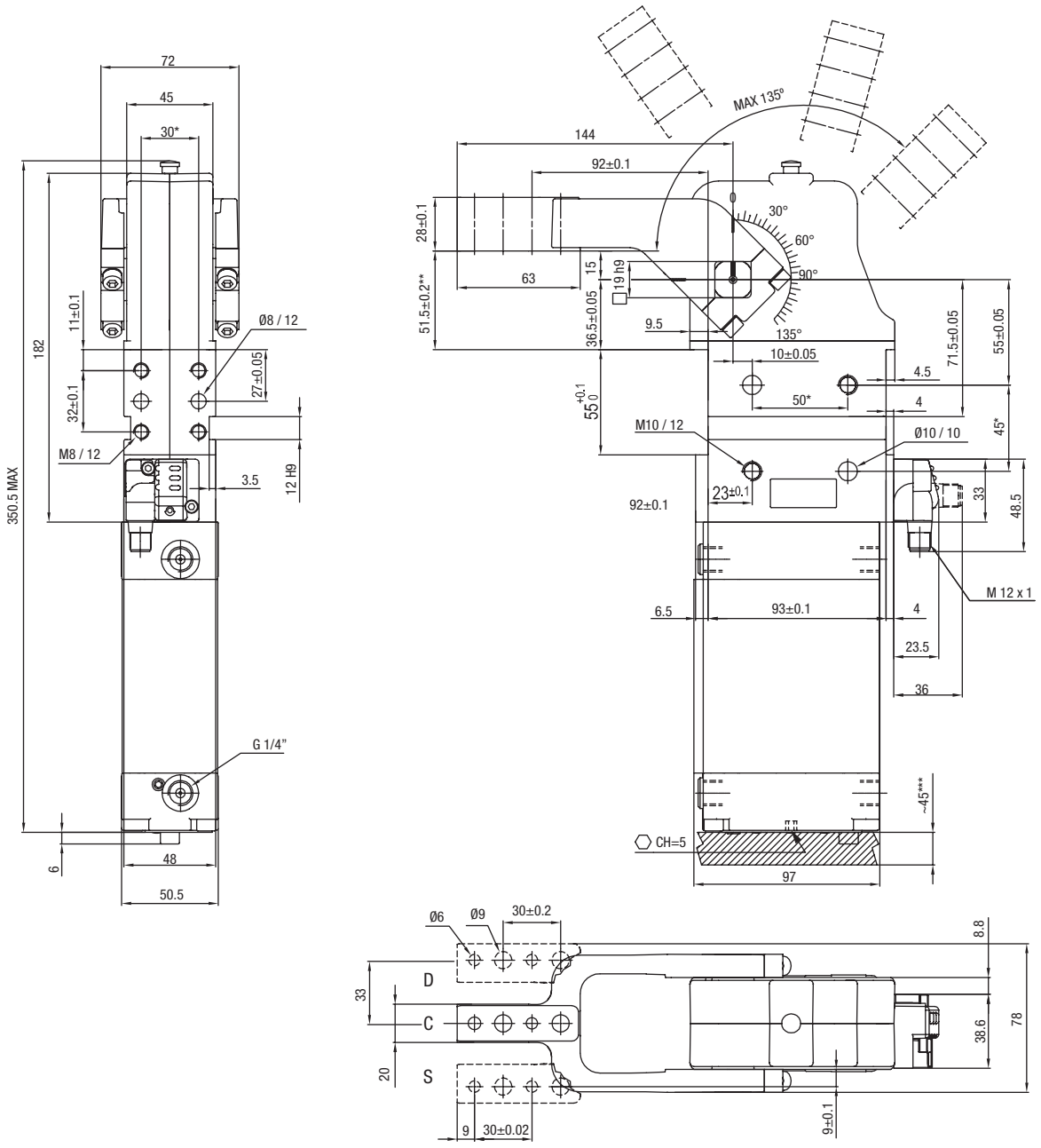
Dimensional Drawing - UBM50O_E Pneumatic Power Clamp with Manual Lever



* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment
**** Dimensions to be respected in case other manual levers are used

Dimensions: mm

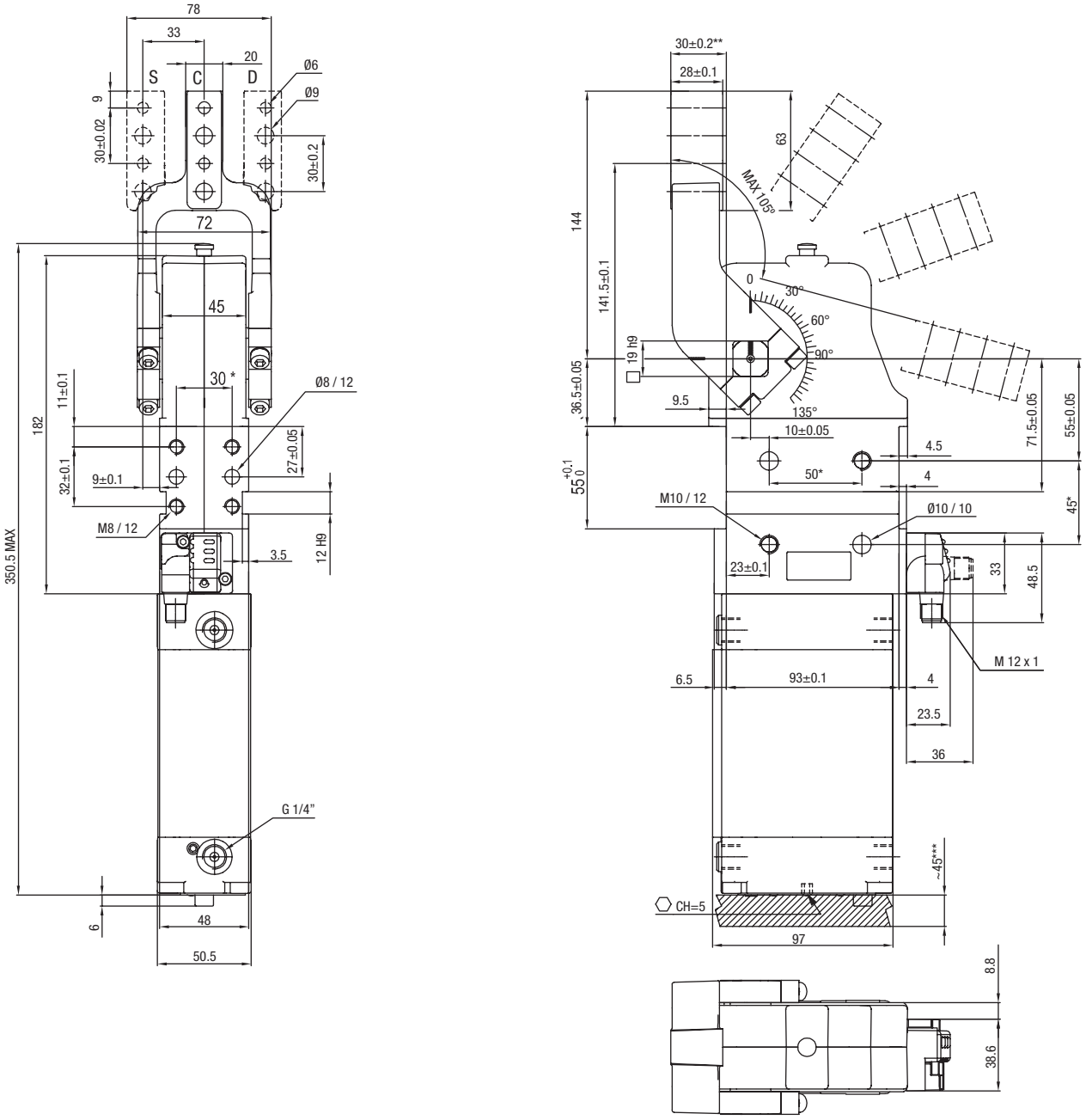
Dimensional Drawing - UBP63V_E Pneumatic Power Clamp



* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment

Dimensions: mm

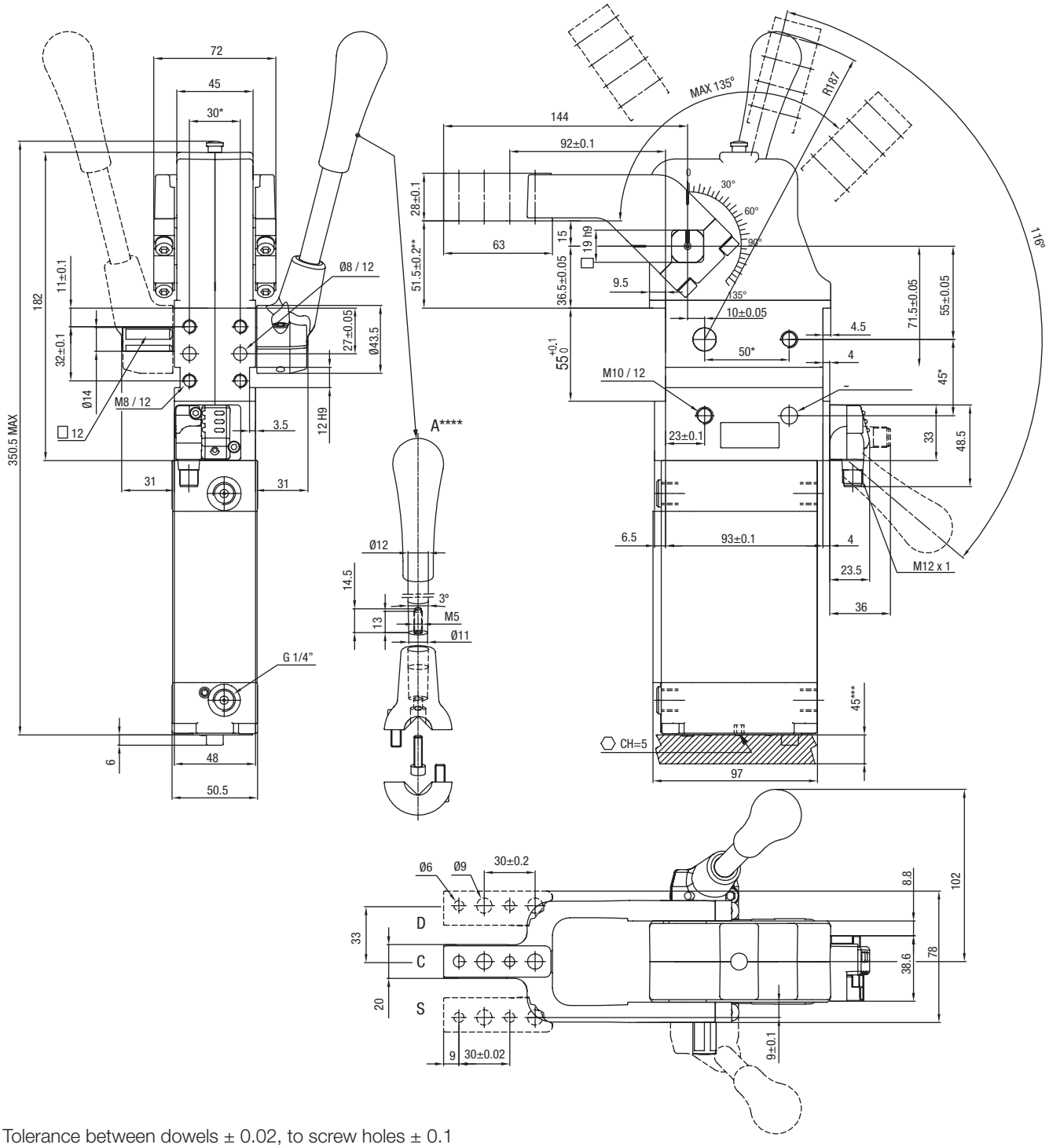
Dimensional Drawing - UBP630_E Pneumatic Power Clamp



* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment

Dimensions: mm

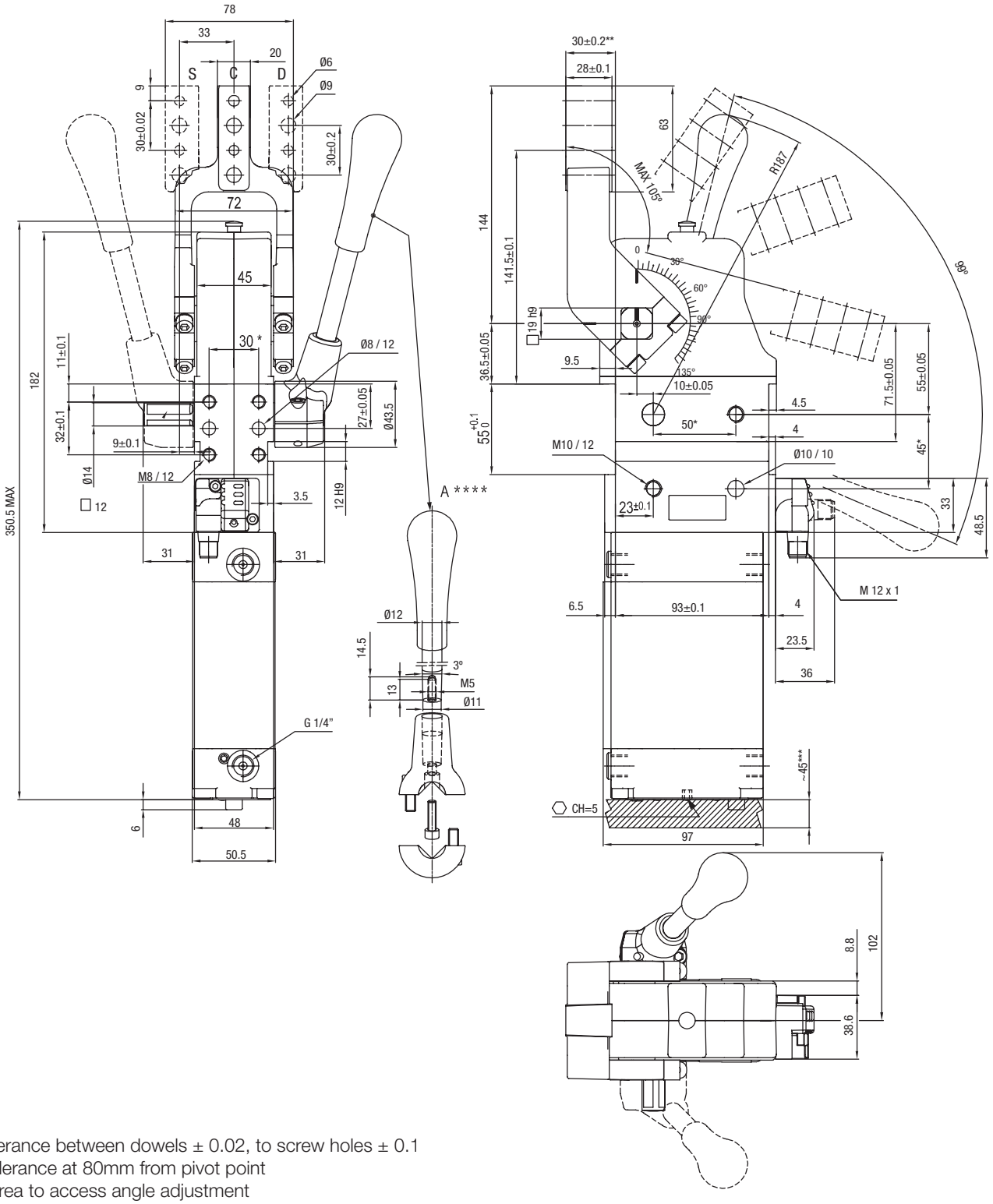
Dimensional Drawing - UBM63V_E Pneumatic Power Clamp with Manual Lever



* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment
**** Dimensions to be respected in case other manual levers are used

Dimensions: mm

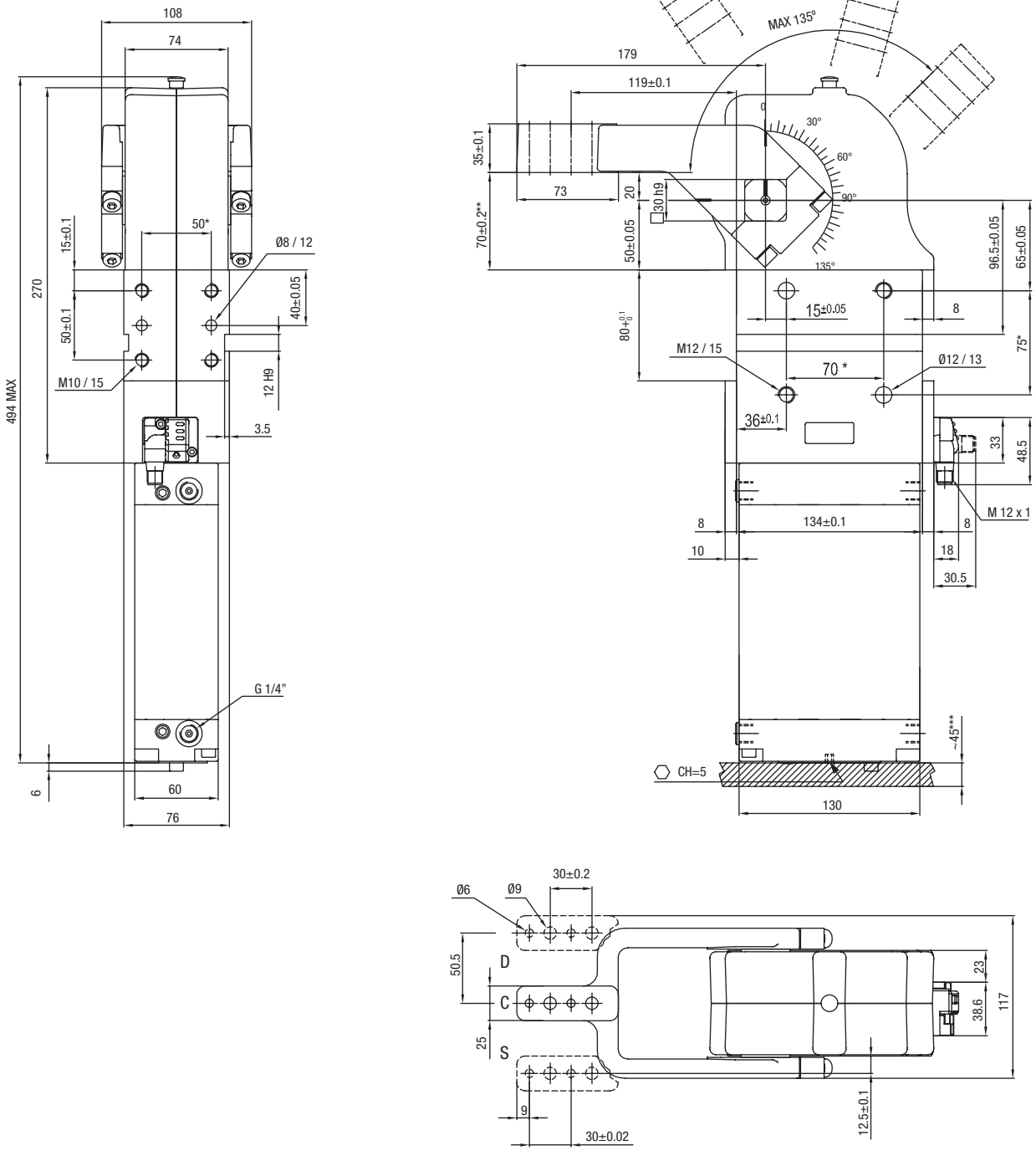
Dimensional Drawing - UBM63O_E Pneumatic Power Clamp with Manual Lever



* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment
**** Dimensions to be respected in case other manual levers are used

Dimensions: mm

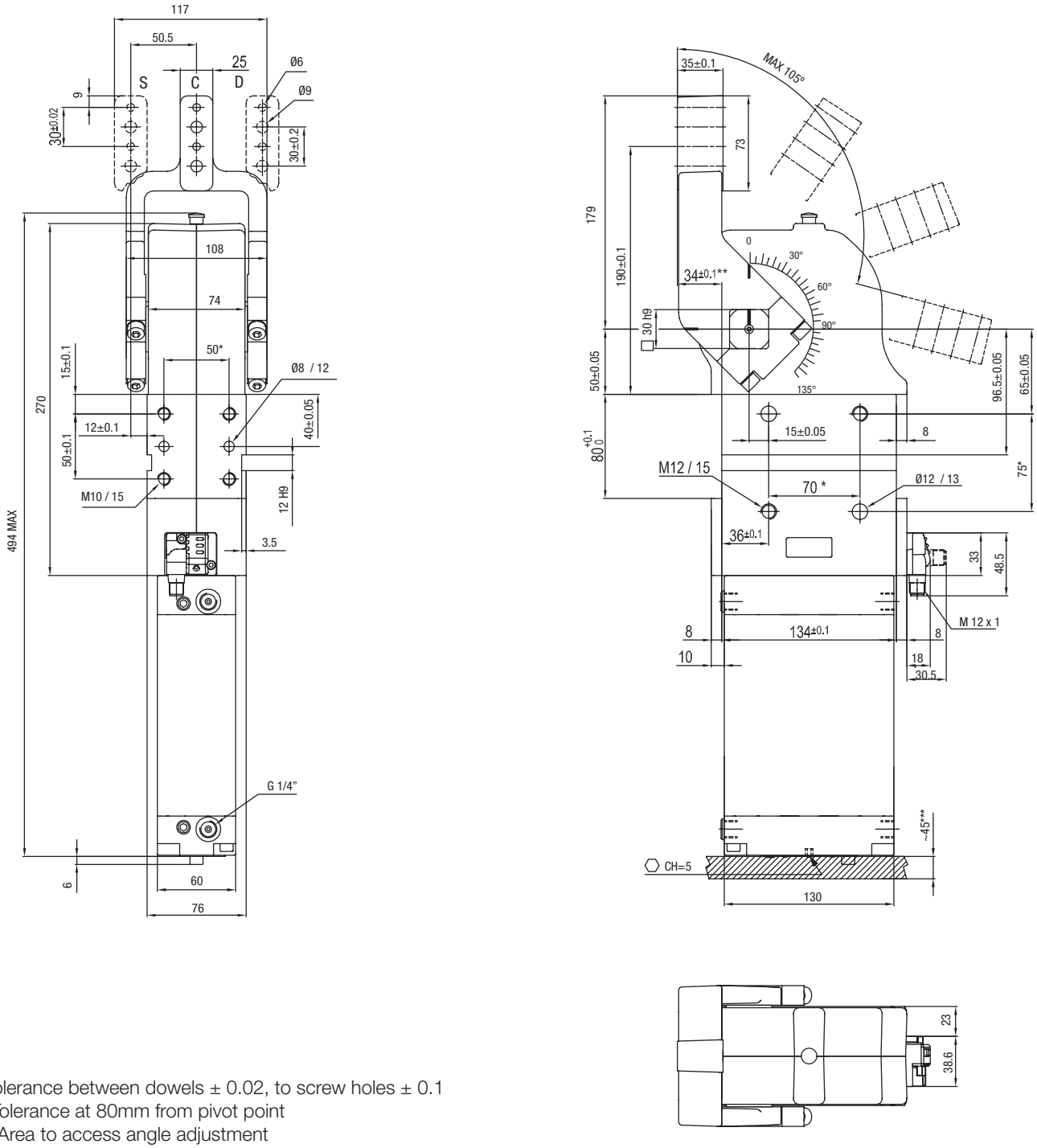
Dimensional Drawing - UBP80V_E Pneumatic Power Clamp



* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment

Dimensions: mm

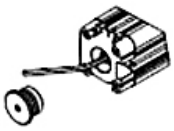
Dimensional Drawing - UBP80O_E Pneumatic Power Clamp



* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment

Handling, positioning and maintenance operations should only be performed by trained personnel who follow appropriate safety precautions. Warn operators of the risk of being crushed between the clamping arm and the shims mounted under the arm. As a preventive measure, manufacturer recommends that the user install an appropriate signaling device or security system near the dangerous areas to alert the operator.

Opening Angle Adjustment

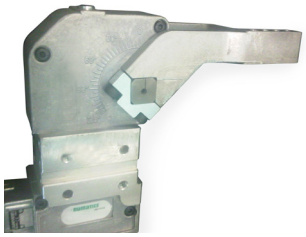


32mm opening angle adjustment

1. Set the clamping arm in the open position.
2. Slide the cover to access the angle adjustment.
3. Insert the hex key until it has engaged with the screw.
4. Keep the key pushed in and rotate it clockwise to increase the opening angle. Remove key.
5. Close the cover.

Clamping Arm Mounting

Tighten the screws moderately; then tighten completely the corresponding pairs of screws, one on the right and the other on the left clamping arm.

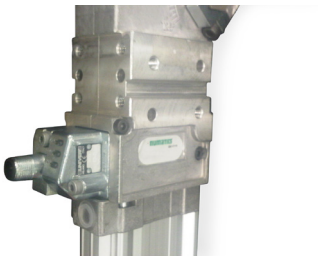


Do not insert the dowels in the clamping arm when it is assembled on the clamp.

Screw	Tightening Torque
M5	14 Nm
M6	18 Nm
M8	30 Nm
M10	35 Nm

Mounting Instructions

The mounting of the unit to the equipment can be carried out by using the front, rear or side part of the housing of the clamp.



Mounting to the front or rear surface:
Insert two hardened pins into the special seats to locate the clamp to the tooling:

Series	ø Dowels
UB_40	6
UB_50 and UB_63	8
UB_80	8

Fix it steadily by using the indicated screws, limiting the tightening torque:

Series	Screws	Thread	Tightening Torque
UB_40	M6	12 mm	8 Nm
UB_50 and UB_63	M8	12 mm	15 Nm
UB_80	M10	15 mm	25 Nm

Fixing to the side part of the housing of the clamp:
Insert two hardened pins into the special seats to locate the clamp to the tooling:

Series	ø Dowels
UB_40	6
UB_50 and UB_63	10
UB_80	12

Fix it steadily by using the indicated screws, limiting the tightening torque:

Series	Screws	Thread	Tightening Torque
UB_40	M6	12 mm	8 Nm
UB_50 and UB_63	M10	12 mm	25 Nm
UB_80	M12	15 mm	45 Nm

Instructions for the connection of the clamp to its energy source

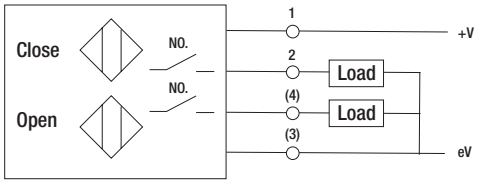
Connect the sensor of the clamp to its electric supply unit.
Then connect the pneumatic tube by means of suitable pneumatic fittings according to the specification below:

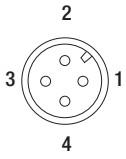
- Series UB_40 -> G¼ fittings
- Series UB_50, UB_63 and UB_80 -> G¼ fittings

Operating pressure from 2.75 Bar (40 PSIG) to 8 Bar (115 PSIG).

Electric Sensor

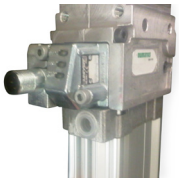
Electric Features	
Supply voltage	10÷30 Vdc
Supply current without load	< 20 mA
Rated operational current	Max 30 mA
Output logic	PNP N.O.
LED - supply	green
LED - close position - pin 2	red
LED - open position - pin 4	yellow





M12 Male Connector

How to orient the connector



1. Unscrew the screw of the connector.
2. Open the cover.
3. Rotate the connector.
4. Close the cover and screw.

How to replace the sensor

1. It is not necessary to remove air supply.
2. Unscrew the sensor's screw.
3. Insert a new sensor.
4. Screw the sensor to its housing.

Type and frequency of controls and/or maintenance work

The unit has been designed and constructed in such a way that specific programmed maintenance is not necessary; a monthly external cleaning of the application with suitable, non-aggressive and non-corrosive detergents is recommended.

ELECTRONIC SENSOR & WISHBONE ARMS

Electronic 24 VDC Sensor Cartridge

Model Number	Sensor Cartridge Part Number
UPB32 Clamp	DF-U
UNP50 Clamp	DF-U
UNP63 Clamp	DF-U
UNP80 Clamp	DF-UBO170
UBH40 Clamp	DF-U
UBP50 Clamp	DF-U
UBP63 Clamp	DF-U
UBP80 Clamp	DF-UBO170
UGP40 Gripper	DF-U
LSP50 Pin Clamp	DF-USGU
LTP50 Pin Clamp	DF-USGU
UAGP170 Power Pivot	DF-UBO170
UAGP300 Power Pivot	DF-UO300
UAGP600 Power Pivot	DF-UO600
LAGP170 Power Pivot	DF-UBO170
LAGP300 Power Pivot	DF-UO300
LAGP600 Power Pivot	DF-UO600

Seal Kits

Model Number	Clamp Part Number
UBG0140	For UB_40
UBG0150	For UB_50
UBG0163	For UB_63
UBG0180	For UB_80

Tie Rod Kits

Model Number	Clamp Part Number
UBK3740	For UBH40
UBK3750	For UBP50
UBK3763	For UBP63
UBK3780	For UBP80

UBQ & UBM Replacement Lever Arms

Model Number	Clamp Part Number
UBF2540	For UBQ40
UBF255063	For UBM50 & 63

Sensor Cover Plate

Model Number	Clamp Part Number
UBK535063	For 32, 40, 50 & 60mm Clamps

UB Series Standard Wishbone Arms

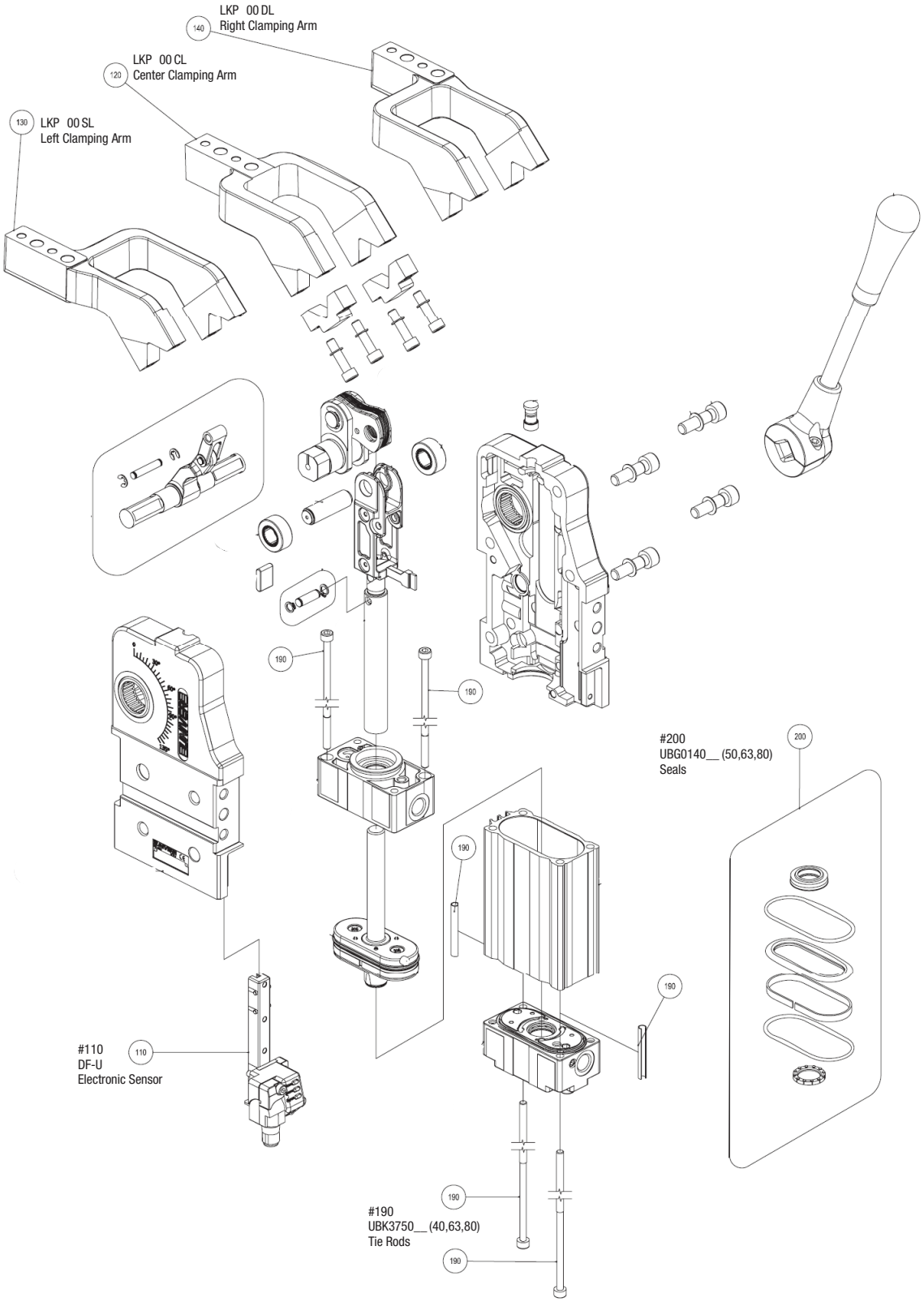
Pneumatic Power Clamps with 90° Arm Mount Position			
Base Clamp	**Arm Number**	**Completed Unit**	**Arm Style (standard)**
UBP32NNE UBH40NNE UBQ40NNE	LKP32C	UBP32VCE	Center
	LKP01CST	UBH40VCE	Center
	LKP01DST	UBH40VDE	Right
	LKP01SST	UBH40VSE	Left
UBP50NNE UBM50NNE	LKP00CL	UBP50VCE	Center
	LKP00DL	UBP50VDE	Right
	LKP00SL	UBP50VSE	Left
UBP63NNE UBM63NNE	LKP00CL	UBP63VCE	Center
	LKP00DL	UBP63VDE	Right
	LKP00SL	UPB63VSE	Left

Pneumatic Power Clamps with 180° Arm Mount Position			
Base Clamp	**Arm Number**	**Completed Unit**	**Arm Style (standard)**
UBP32NNE UBH40NNE UBQ40NNE	LKP32C	UBP32OCE	Center
	LKP01CST	UBH40OCE	Center
	LKP01SST	UBH40ODE	Right
	LKP01DST	UBH40OSE	Left
UBP50NNE UBM50NNE	LKP00CL	UBP50OCE	Center
	LKP00SL	UBP50ODE	Right
	LKP00DL	UBP50OSE	Left
UBP63NNE UBM63NNE	LKP00CL	UBP63OCE	Center
	LKP00SL	UBP63ODE	Right
	LKP00DL	UPB63OSE	Left

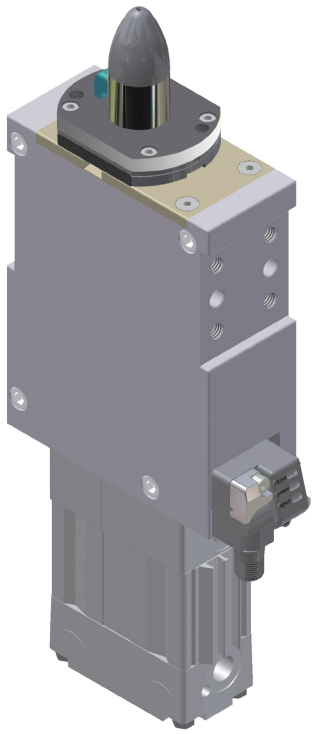
Note: The same center arm part numbers are used for 90° and 180° center arm mount position clamp assemblies. Left and Right arm part numbers change due to a difference in mounting. For example, UBH40VDE (90° right arm mount position) uses arm LKP01DST, while UBH400DE (180° right arm mount position) uses arm LKP01SST.

Dimensions: mm

Dimensional Drawing - Individual Power Clamp Components



LSP SERIES PNEUMATIC PIN CLAMP



Features

- Designed to both locate and clamp material
- Multiple pin sizes available
- Different working heights available
- Unique system prevents weld slag from entering unit.
- Hardened pins, hooks and scrapers for extended life
- Orthogonal version for applications with very demanding dimensional limitations
- Remains locked in closed position even when air pressure is removed
- Pneumatic ports on both sides of the cylinder
- Unique “programmable” all metal sensor with M12 swivel connector

General Specifications

Weight:
LSP50G: 3.2 Kg (7.1 lbs.)
LSP50U: 2.2 Kg (4.9 lbs.)

Operating Pressure:
Minimum: 2.75 Bar (40 PSIG)
Maximum: 8 Bar (115 PSIG)

Operating Temperature: 5˚ to 45˚ C (40˚ to 113˚F)

Class Protection: IP54

Maximum Clamping Force

Model Number	4 Bar (58 PSIG)	5 Bar (72 PSIG)
LSP50G	2850 N (640 lbs.)	3500 (786 lbs.)
LSP50U	3250 N (730 lbs.)	4000 N (899 lbs.)

How to Order

LSP Series Pneumatic Pin Clamp

LS P 50 G U 3 1 0

Series
LS = Pneumatic pin clamp

Version
P = Pneumatic standard

Bore Size
50 = ø 50 mm

Model
G = Inline
U = Orthogonal

Working Height
0 = Standard
Others upon request

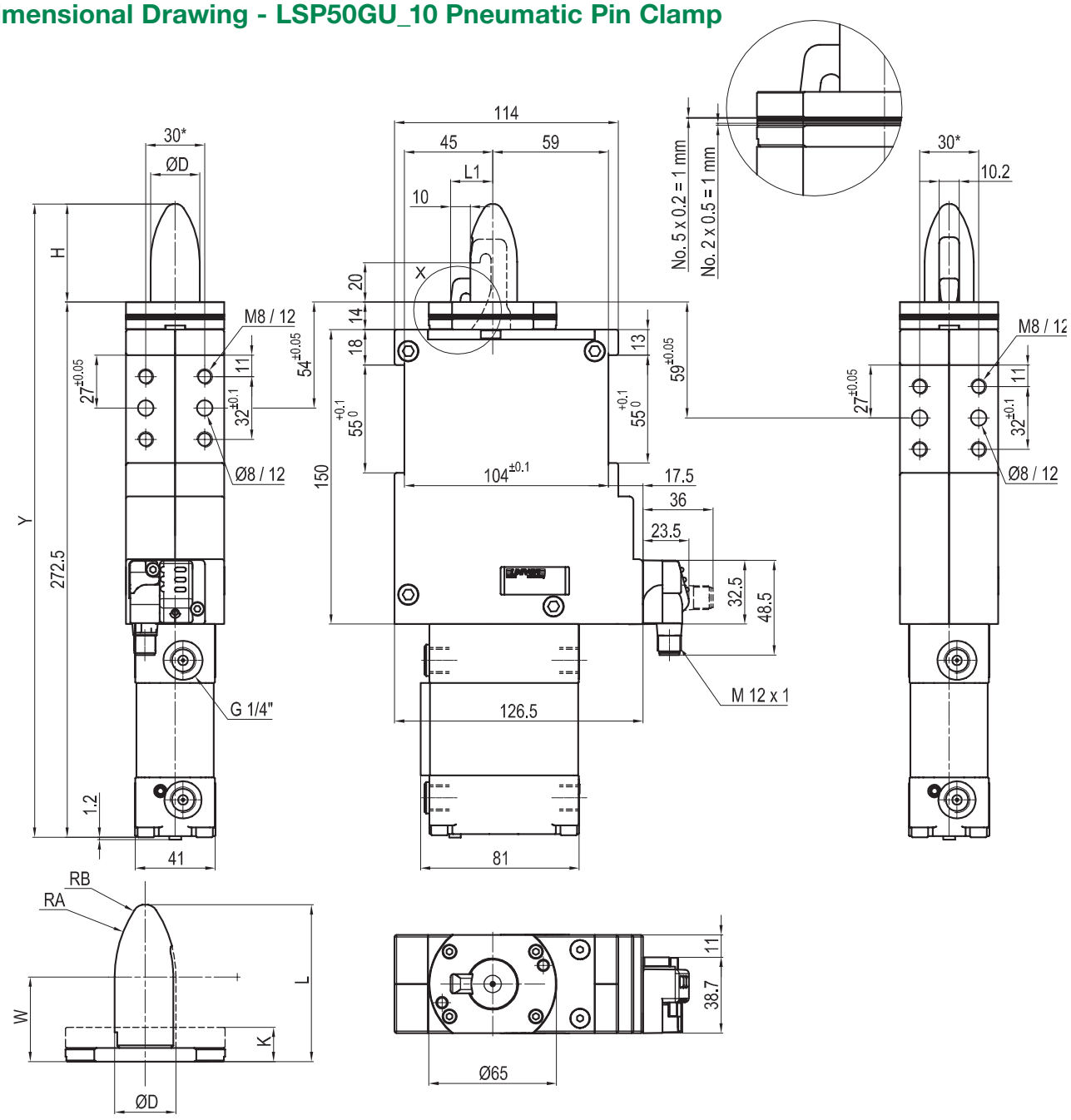
Locating Pin
0 = Locating pin not included
1 = Locating pin included

Pin Diameter
2 = ø 20 mm
3 = ø 25 mm
4 = ø 30 mm
5 = ø 35 mm
6 = ø 40 mm*
*Not available on orthogonal version

Sensing Style
U = Electronic 24 VDC sensor with M12 swivel connector

Dimensions: mm

Dimensional Drawing - LSP50GU_10 Pneumatic Pin Clamp

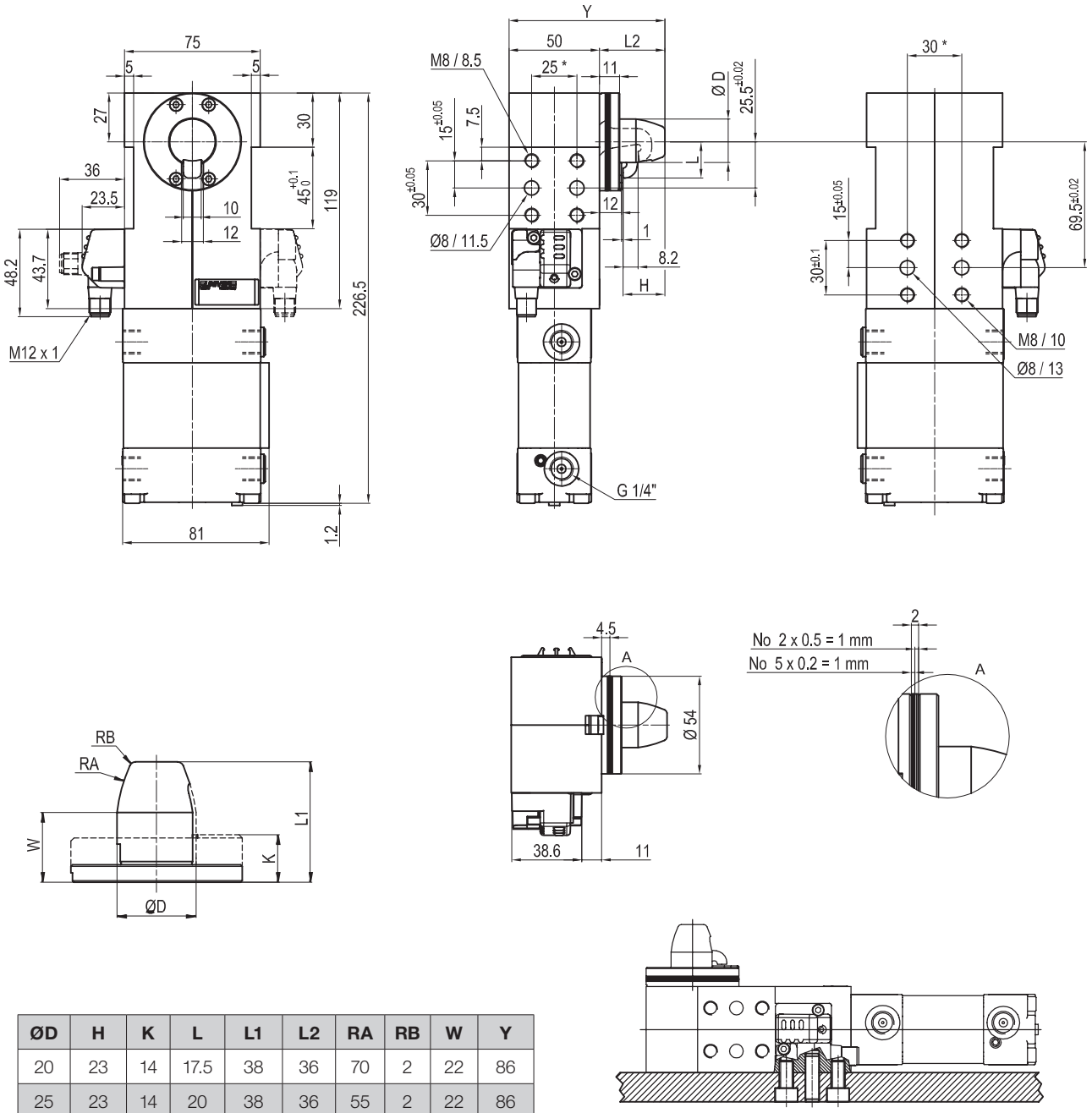


ØD	H	K	L	L1	RA	RB	W	Y
20	45	14	59	19	65	5	34.5	317.5
25	50	14	64	21.5	50	5	34.5	322.5
30	50	14	64	24	50	5	34.5	322.5
35	50	14	64	26.5	48	2	29	322.5
40	50	14	64	29	48	2	29	328.5

* Tolerance between dowel holes ± 0.02, to screw holes ± 0.1

Dimensions: mm

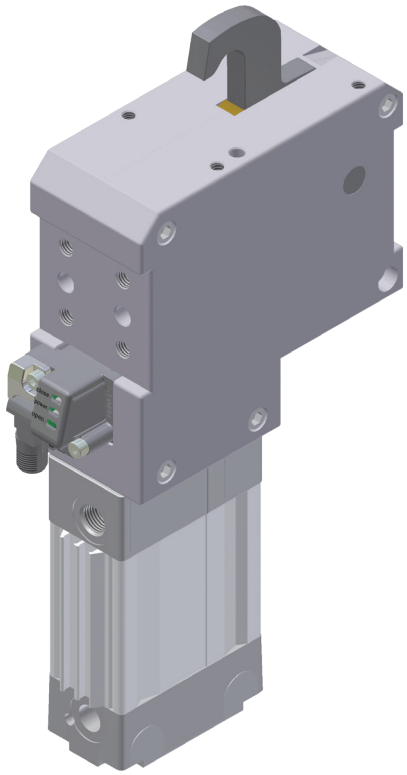
Dimensional Drawing - LSP50UU_10 Pneumatic Pin Clamp



ØD	H	K	L	L1	L2	RA	RB	W	Y
20	23	14	17.5	38	36	70	2	22	86
25	23	14	20	38	36	55	2	22	86
30	30	14	22.5	45	42	33	2	22	92
35	30	14	25	45	42	28	2	22	92

* Tolerance between dowel holes ± 0.02, to screw holes ± 0.1
The sensor can be mounted on either right or left side.

LTP SERIES PNEUMATIC PIN CLAMP



Features

- Vanishing hook provides low profile
- Multiple hook sizes available
- Unique system prevents weld slag from entering unit.
- Long travel of hook designed for increased engagement of sheet metal in oval slots
- Hardened pins, hooks and scrapers for extended life
- Remains locked in closed position even when air pressure is removed
- Pneumatic ports on both sides of the cylinder
- Unique “programmable” all metal sensor with M12 swivel connector

General Specifications

Weight:
LTP50T: 3.2 Kg (7.1 lbs.)

Operating Pressure:
Minimum: 2.75 Bar (40 PSIG)
Maximum: 8 Bar (115 PSIG)

Operating Temperature: 5˚ to 45˚ C (40˚ to 113˚F)

Class Protection: IP54

Maximum Clamping Force

Model Number	4 Bar (58 PSIG)	5 Bar (72.5 PSIG)
LTP50T	2850 N (640 lbs.)	3500 (786 lbs.)

How to Order

LTP Series Pneumatic Pin Clamp

LT P 50 T U 2 0 0

Series
LT = Pin clamp with vanishing hook

Version
P = Pneumatic

Bore Size
50 = ø 50 mm

Model
T = With vanishing hook

Working Height
0 = Standard

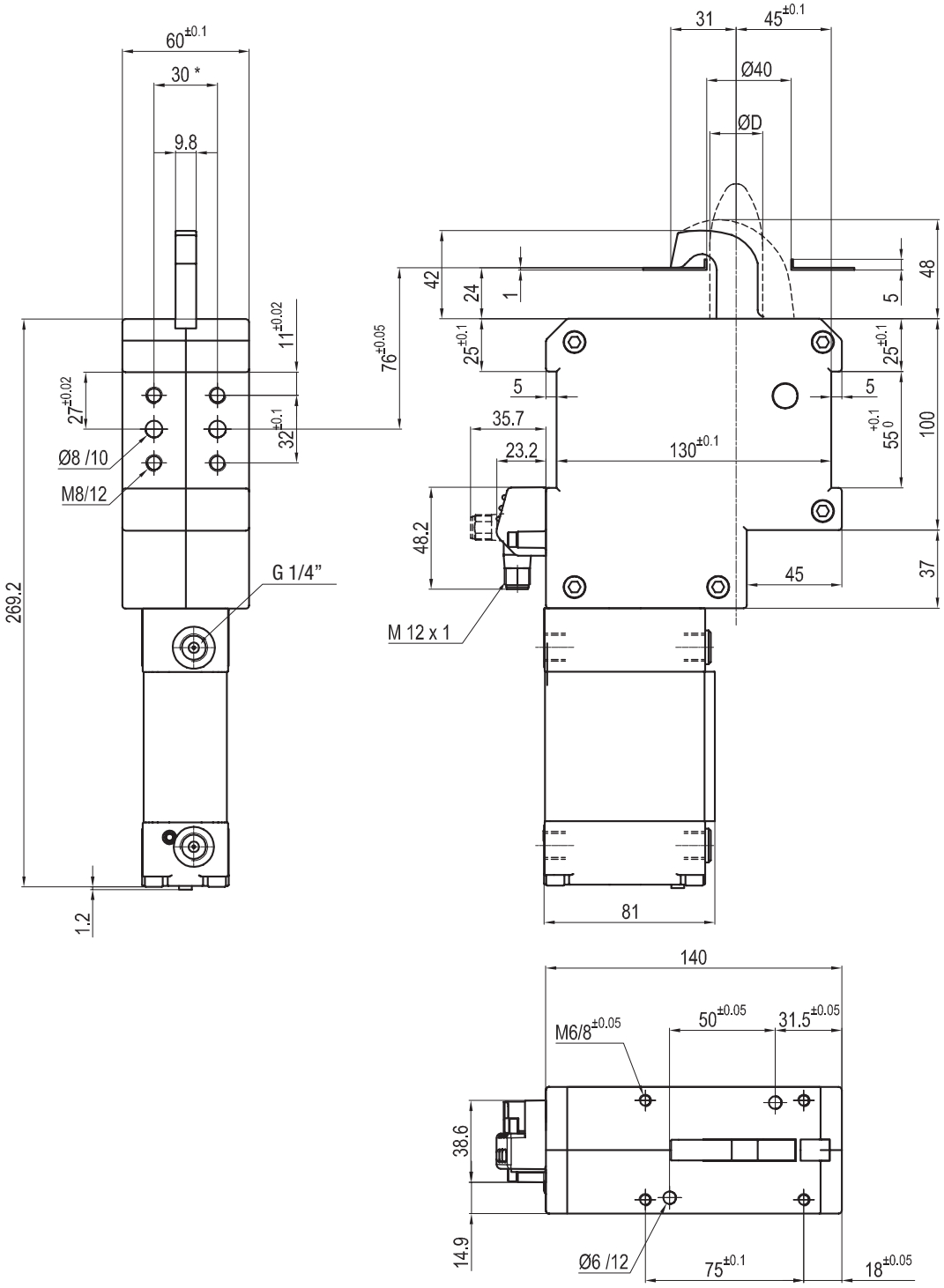
Locating Hook
0 = Locating hook not included
1 = Locating hook included

Hook Diameter
2 = ø 20 mm
3 = ø 25 mm
4 = ø 30 mm
5 = ø 35 mm
6 = ø 40 mm

Sensing Style
N = No sensor (with protection plate)
U = Electronic 24 VDC sensor with M12 swivel connector

Dimensions: mm

Dimensional Drawing - LTP50TU_OO Pneumatic Pin Clamp with Vanishing Hook

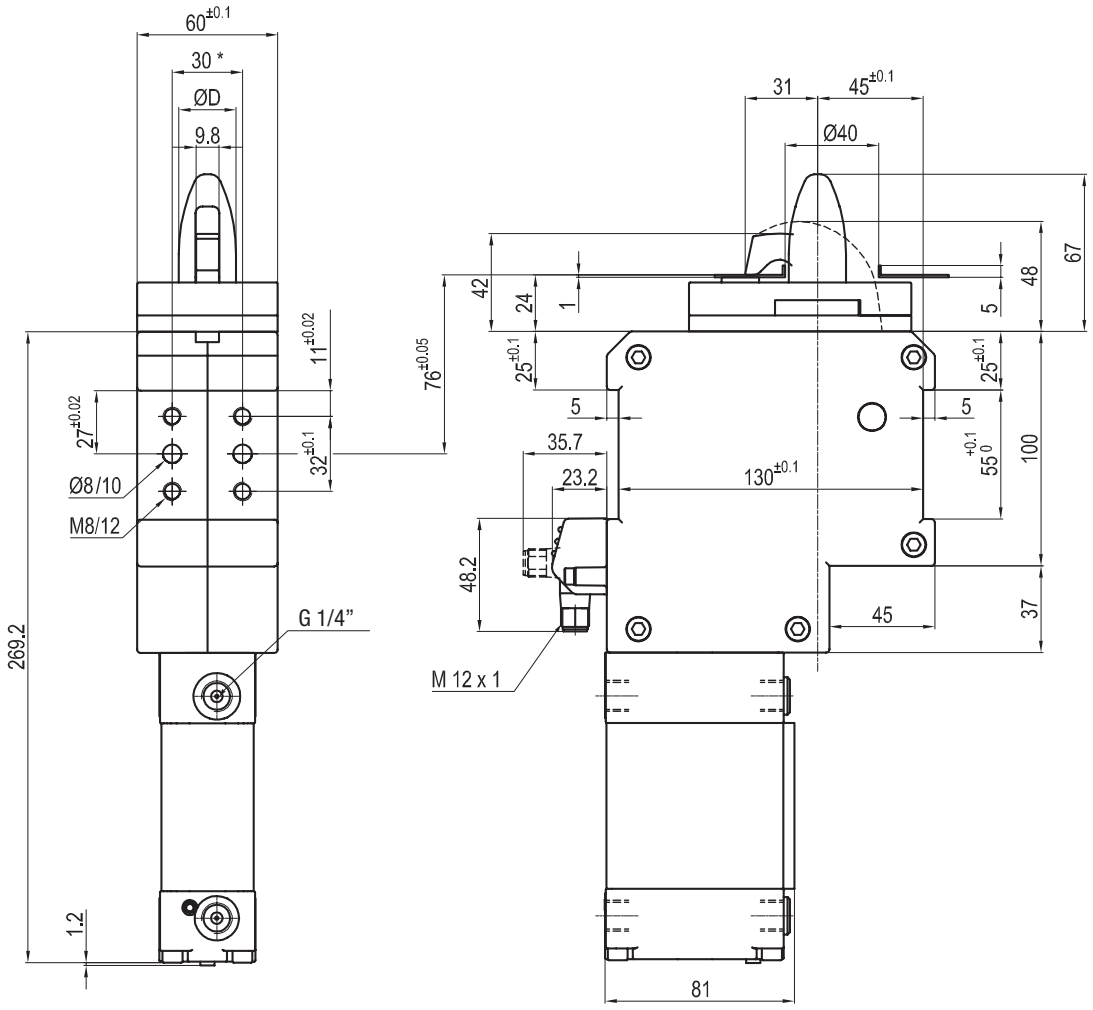


ØD
20
25
30
35
40

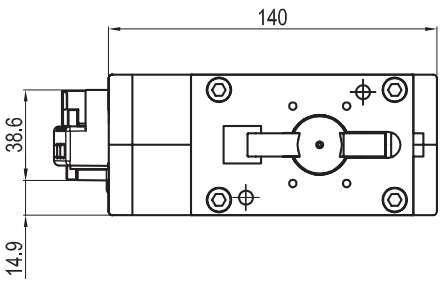
* Tolerance between dowel holes ± 0.02, to screw holes ± 0.1

Dimensions: mm

Dimensional Drawing - LTP50TU_10 Pneumatic Pin Clamp with Vanishing Hook



ØD
20
25
30
35
40



* Tolerance between dowel holes ± 0.02, to screw holes ± 0.1

NOTES

NOTES

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Power Clamp Rev 01/16
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