

UCNM 50

Pneumatic power clamps conforming to the NAAMS standard, Ø50 mm with hand lever

Pneumatic power clamps size Ø50 mm, conforming to the NAAMS standard with hand lever, compensation system, toggle-joint mechanism and stepless adjustable opening angle, typically used for handling and holding metal sheets in welding applications

- Lightweight aluminium construction and compact dimensions
- Integrated compensation system up to 1,7 mm
- Hand lever mount on both sides
- Fully optical electronic sensor or pneumatic sensor
- Fixing pattern on 4 sides
- Manual unlocking in case of air loss
- Drive shaft for wishbone or blade arms
- NPT or GAS connections
- Self-holding system for open position available

CHARACTERISTICS

Operating temperature	5° ÷ 45° C
Min./Max. operating pressure	0,4/0,6 Mpa
Opening angle*	0° ÷ 135°
Bore Ø	50 mm
Holding moment	1250 Nm
Clamping moment (0,5 MPa)	280 Nm
Weight (clamping arm not included)	3,4 Kg
Pneumatic supply ports	1/4 on both sides
Sensor	electronic (optical)
Supply voltage	10 ÷ 30 Vdc
IP code	IP65

*The opening angle range may vary according to the arm position and style.



CODIFICATION KEY

UC	N	M	50	N	N	K	G	0	
1	2	3	4	5	6	7	8	9	10



COMPENSATION



LIGHTWEIGHT



IRREVERSIBLE



ANGLE ADJUSTMENT



OPTICAL SENSOR



COMPACT

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SERIES
UC = UNICLAMP Power clamps

2

STANDARD
N = NAAMS Standard

3

VERSION
M = Pneumatic with hand lever

4

SIZE
50 = Ø 50 mm

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ARM POSITION

N = No arm



For clamping arms according to NAAMS standard, please contact our Sales Dept.

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SQUARE SHAFT
R = Right side only
L = Left side only
N = Both sides

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SENSOR
N = No sensor (with protection plate)
K = Electronic sensor PNP, M12 (DF-K)
D = Pneumatic sensor (DF-UPNW)
J = Electronic sensor NPN, optical (DF-J)
Y = Electronic sensor PNP, M12 (DF-Y) white LED

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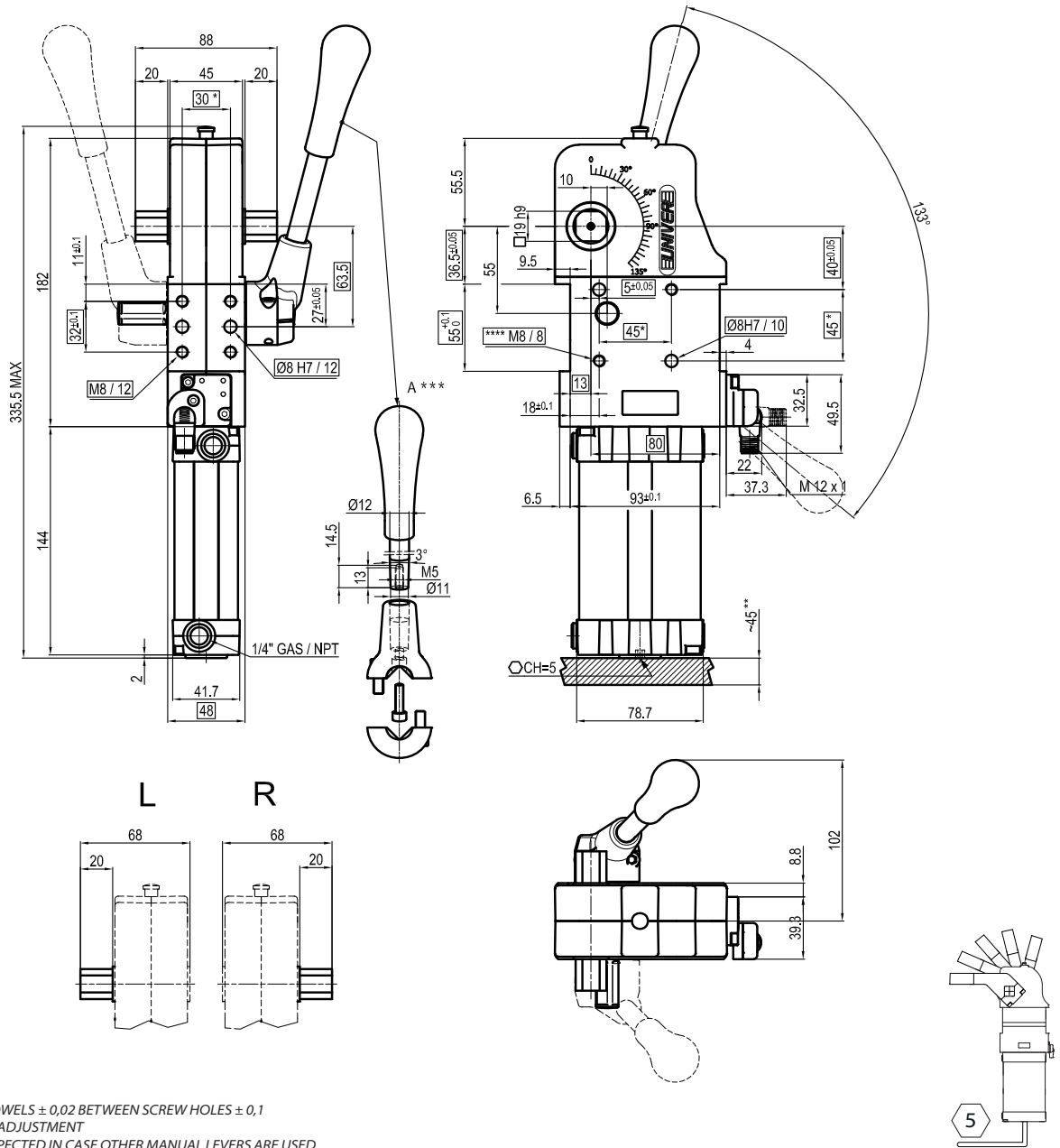
PORT THREAD
G = Gas
N = NPT

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PRODUCT REVISION
Assigned by UNIVER

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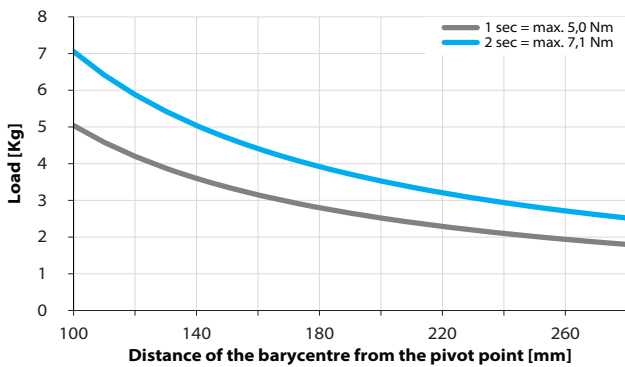
ATEX
X = ATEX option
See ATEX Catalogue for types and versions



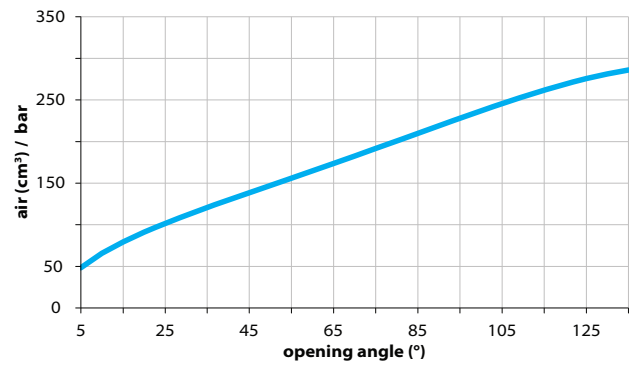
*TOLERANCE BETWEEN DOWELS ± 0,02 BETWEEN SCREW HOLES ± 0,1
 **AREA TO ACCESS ANGLE ADJUSTMENT
 ***DIMENSIONS TO BE RESPECTED IN CASE OTHER MANUAL LEVERS ARE USED
 ****SCREW THREAD INSERT

Maximum Applicable Load

Pressure: 5 bar - 90° cycle time (Open - Close)



Air Consumption per Cycle



Sensors

Accessories

2



Electronic (optical)

Pneumatic

Handlever

Self holding system

DF-K PNP M12
DF-J NPN M12
DF-Y PNP M12 White LED

DF-UPNW80

UBF255063

UBK46P19N For blade arms
UBK46P19ND For wishbone arms