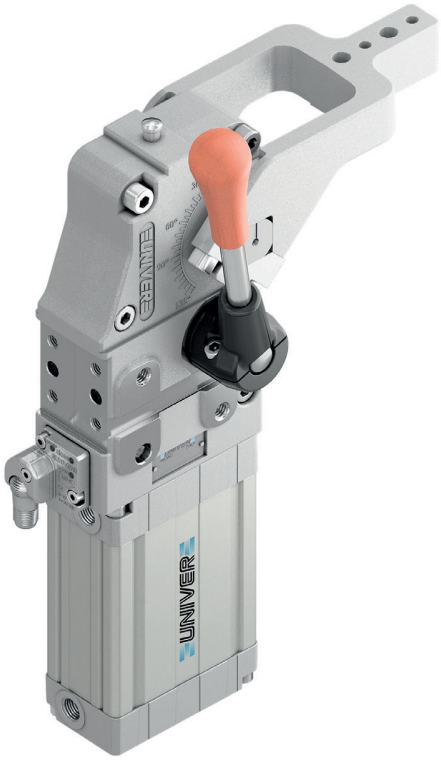
# UCBQ 63

## Pneumatic power clamps Ø63 mm, □22 mm with hand lever



Pneumatic power clamps size Ø63 mm, □22 mm 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
- Compact dimensions
- Integrated compensation system up to 2,7 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
- Self-holding system for open position available
- Clamping arm in aluminium or steel



### CHARACTERISTICS

| | |
|---|---|
| Operating temperature | **5° ÷ 45° C** |
| Min./Max. Operating pressure | **0,4 / 0,6 MPa** |
| Opening angle* | **0° ÷ 135°** |
| Bore Ø | **63 mm** |
| Holding moment | **1750 Nm** |
| Clamping moment (0,5 MPa) | **420 Nm** |
| Weight (clamping arm not included) | **3,8 Kg** |
| Pneumatic supply ports | **G1/4 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.

COMPENSATION

LIGHTWEIGHT

IRREVERSIBLE

ANGLE ADJUSTMENT

OPTICAL SENSOR

COMPACT

### CODIFICATION KEY

| UC | B | Q | 63 | O | E | A | K | 0 | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

**1 SERIES**
UC = UNICLAMP Power clamps

**2 STANDARD**
B = European standard

**3 VERSION**
Q = Pneumatic □ 22 mm with hand lever

**4 SIZE**
63 = Ø 63 mm

**5 ARM POSITION**
V = 90°



O = 180°



N = No arm



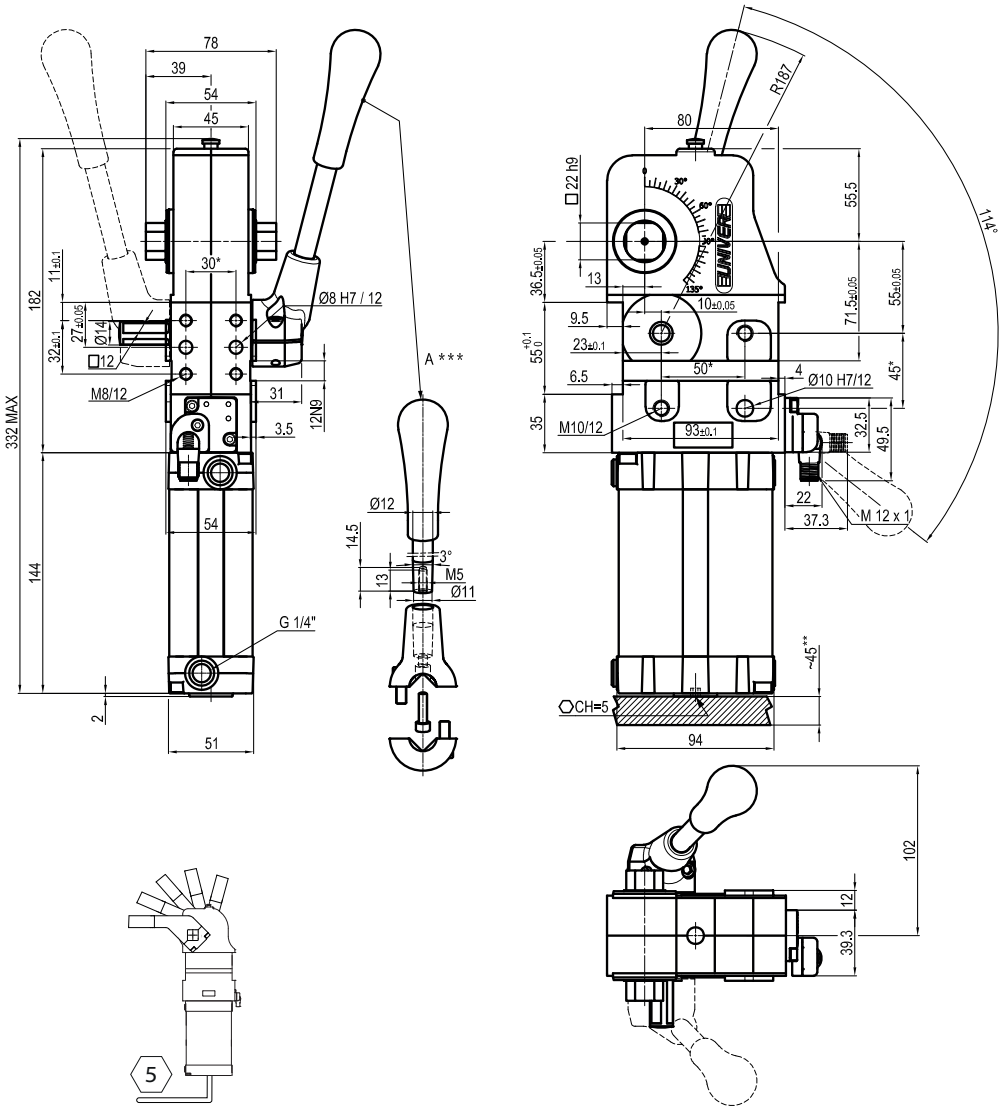
**6 ARM STYLE**
C = Central, 15 mm offset
D = Right, 15 mm offset
S = Left, 15 mm offset
E = Central, 45 mm offset
F = Right, 45 mm offset
L = Left, 45 mm offset
N = No arm
For other versions contact our Sales Dept.

**7 ARM TYPE**
A = Aluminium
S = Steel
N = No arm

**8 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

**9 PRODUCT REVISION**
Assigned by UNIVER

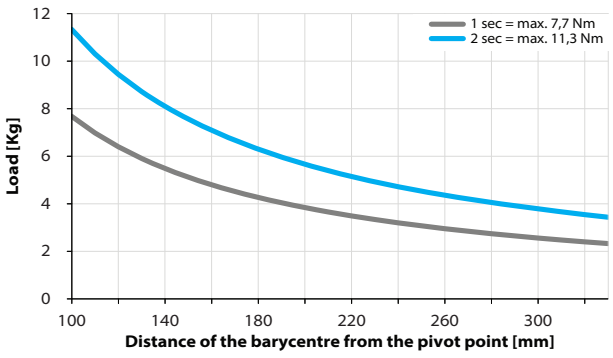
**10 ATEX**
X = ATEX option
See ATEX Catalogue for types and versions



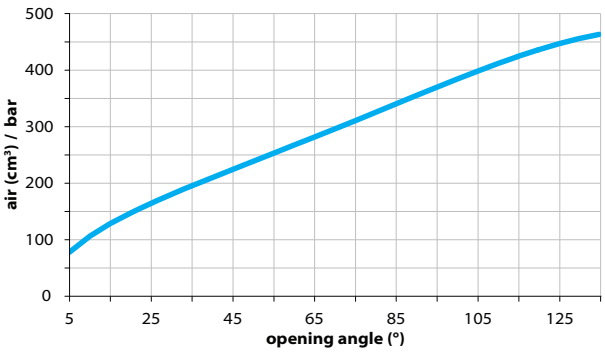

**TOLERANCE BETWEEN DOWELS ± 0,02 BETWEEN SCREW HOLES ± 0,1*
***AREA TO ACCESS ANGLE ADJUSTMENT*
****DIMENSIONS TO BE RESPECTED IN CASE OTHER MANUAL LEVERS ARE USED*

## Maximum Applicable Load

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

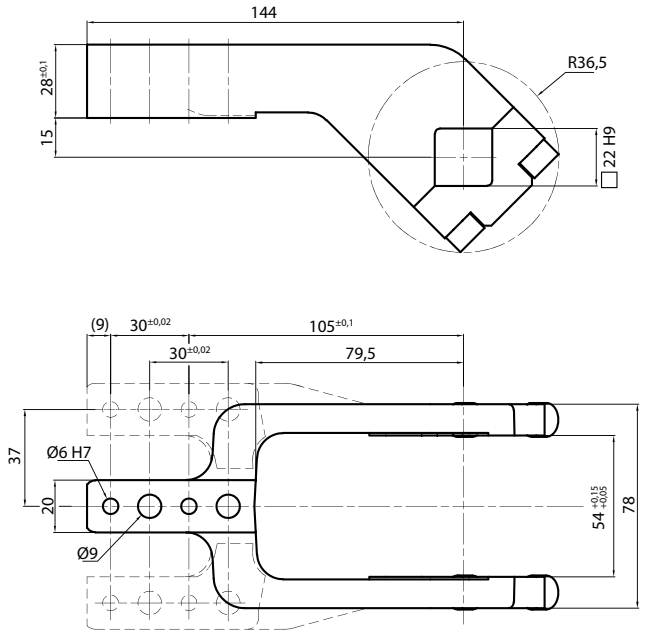



## Air Consumption per Cycle

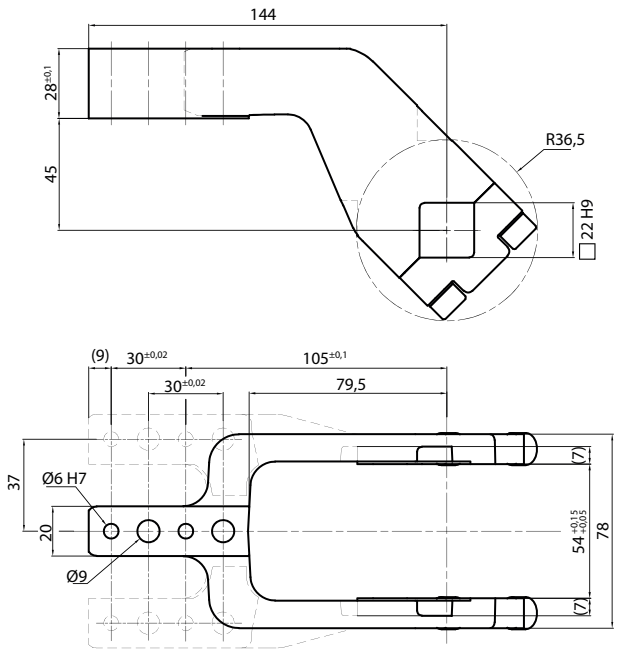


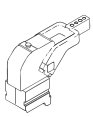
# Clamping Arms

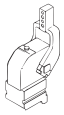
## Arm Offset 15mm




## Arm Offset 45mm





| Armcode | Offset | Material | Arm style | Weight (Kg) | Opening angle (90°) | Opening angle (180°) |
|---|---|---|---|---|---|---|
| UP310151441A | 15 | ALUMINIUM | CENTRAL | 0,3 | 0÷135° | 0÷110° |
| UP310151442A | 15 | ALUMINIUM | RIGHT | 0,3 | 0÷135° | 0÷110° |
| UP310151443A | 15 | ALUMINIUM | LEFT | 0,3 | 0÷135° | 0÷110° |
| UP310151441S | 15 | STEEL | CENTRAL | 1,2 | 0÷135° | 0÷110° |
| UP310151442S | 15 | STEEL | RIGHT | 1,2 | 0÷135° | 0÷110° |
| UP310151443S | 15 | STEEL | LEFT | 1,2 | 0÷135° | 0÷110° |
| UP310451441A | 45 | ALUMINIUM | CENTRAL | 0,3 | 0÷135° | 0÷135° |
| UP310451442A | 45 | ALUMINIUM | RIGHT | 0,3 | 0÷135° | 0÷135° |
| UP310451443A | 45 | ALUMINIUM | LEFT | 0,3 | 0÷135° | 0÷135° |
| UP310451441S | 45 | STEEL | CENTRAL | 1,4 | 0÷135° | 0÷135° |
| UP310451442S | 45 | STEEL | RIGHT | 1,4 | 0÷135° | 0÷135° |
| UP310451443S | 45 | STEEL | LEFT | 1,4 | 0÷135° | 0÷135° |

# Sensors



Electronic (optical)

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



Pneumatic

**DF-UPNW**

# Accessories



Handlever

**UBF255063**



Self holding system

**UBK46P22**