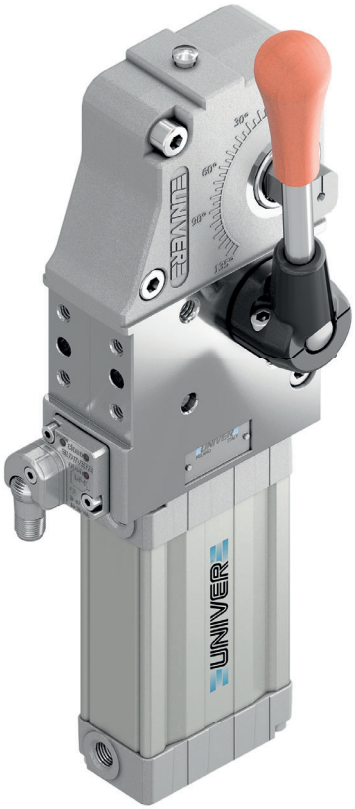
# UCNM 50

## 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

GLOBAL STANDARD COMPONENTS NAAMS

COMPENSATION

LIGHTWEIGHT

IRREVERSIBLE

ANGLE ADJUSTMENT

OPTICAL SENSOR

COMPACT

## 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 |

**1 SERIES**
**UC** = UNICLAMP Power clamps

**2 STANDARD**
**N** = NAAMS Standard

**3 VERSION**
**M** = Pneumatic with hand lever

**4 SIZE**
**50** = Ø 50 mm

**5 ARM POSITION**
**N** = No arm



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

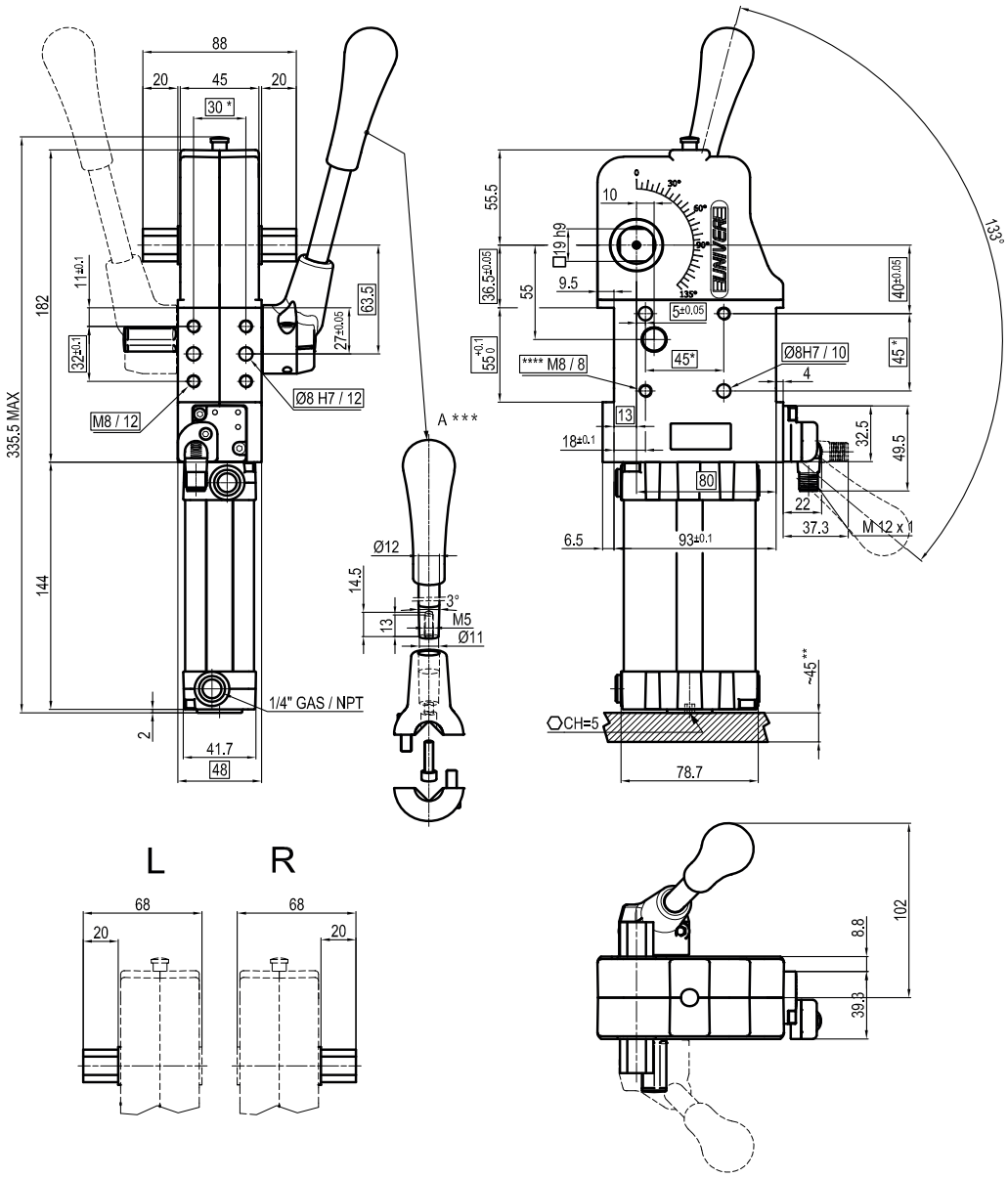
**6 SQUARE SHAFT**
**R** = Right side only
**L** = Left side only
**N** = Both sides

**7 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

**8 PORT THREAD**
**G** = Gas
**N** = NPT

**9 PRODUCT REVISION**
Assigned by UNIVER

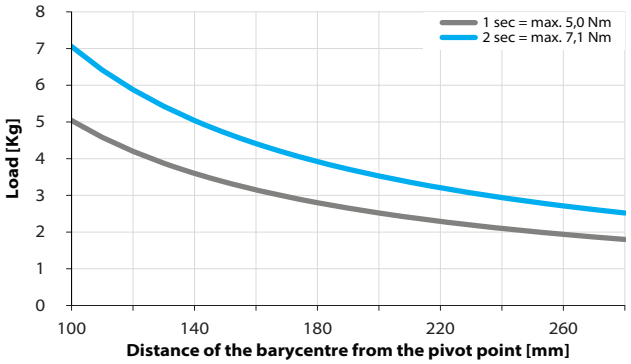
**10 ATEX**
**X** = ATEX option
See ATEX Catalogue for types and versions



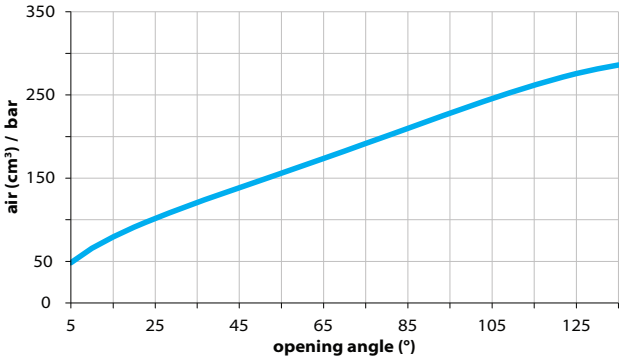

*TOLERANCE BETWEEN DOWELS ± 0,02 BETWEEN SCREW HOLES ± 0,1
**AREA TO ACCESS ANGLE ADJUSTMENT
***DIMENSIONS TO BE RESPECTED IN CASE OTHER MANUAL LEVERS ARE USED
****SCREW THREAD INSERT

## Maximum Applicable Load

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




## Air Consumption per Cycle



## Sensors



Electronic (optical)

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



Pneumatic

**DF-UPNW80**

## Accessories



Handlever

**UBF255063**



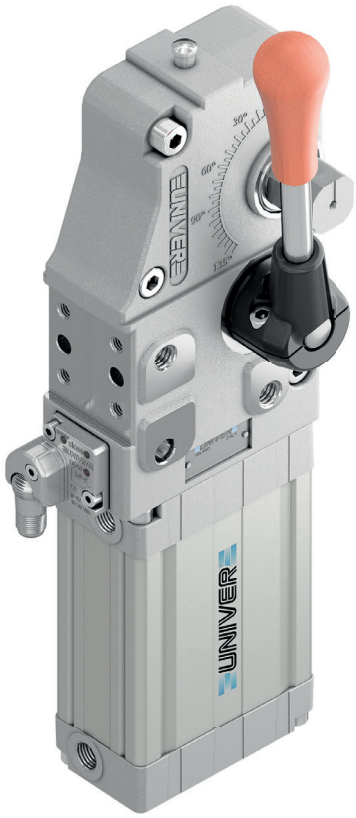
Self holding system

**UBK46P19N** For blade arms
**UBK46P19ND** For wishbone arms

# UCNM 63

## Pneumatic power clamps conforming to the NAAMS standard, Ø63 mm with hand lever

Pneumatic power clamps size Ø63 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 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
- 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 | **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.*

GLOBAL STANDARD COMPONENTS NAAMS

COMPENSATION

LIGHTWEIGHT

IRREVERSIBLE

ANGLE ADJUSTMENT

OPTICAL SENSOR

COMPACT

## CODIFICATION KEY

| UC | N | M | 63 | N | N | K | G | 0 | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

**1 SERIES**
UC = UNICLAMP Power clamps

**2 STANDARD**
N = NAAMS Standard

**3 VERSION**
M = Pneumatic with hand lever

**4 SIZE**
63 = Ø 63 mm

**5 ARM POSITION**
N = No arm



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

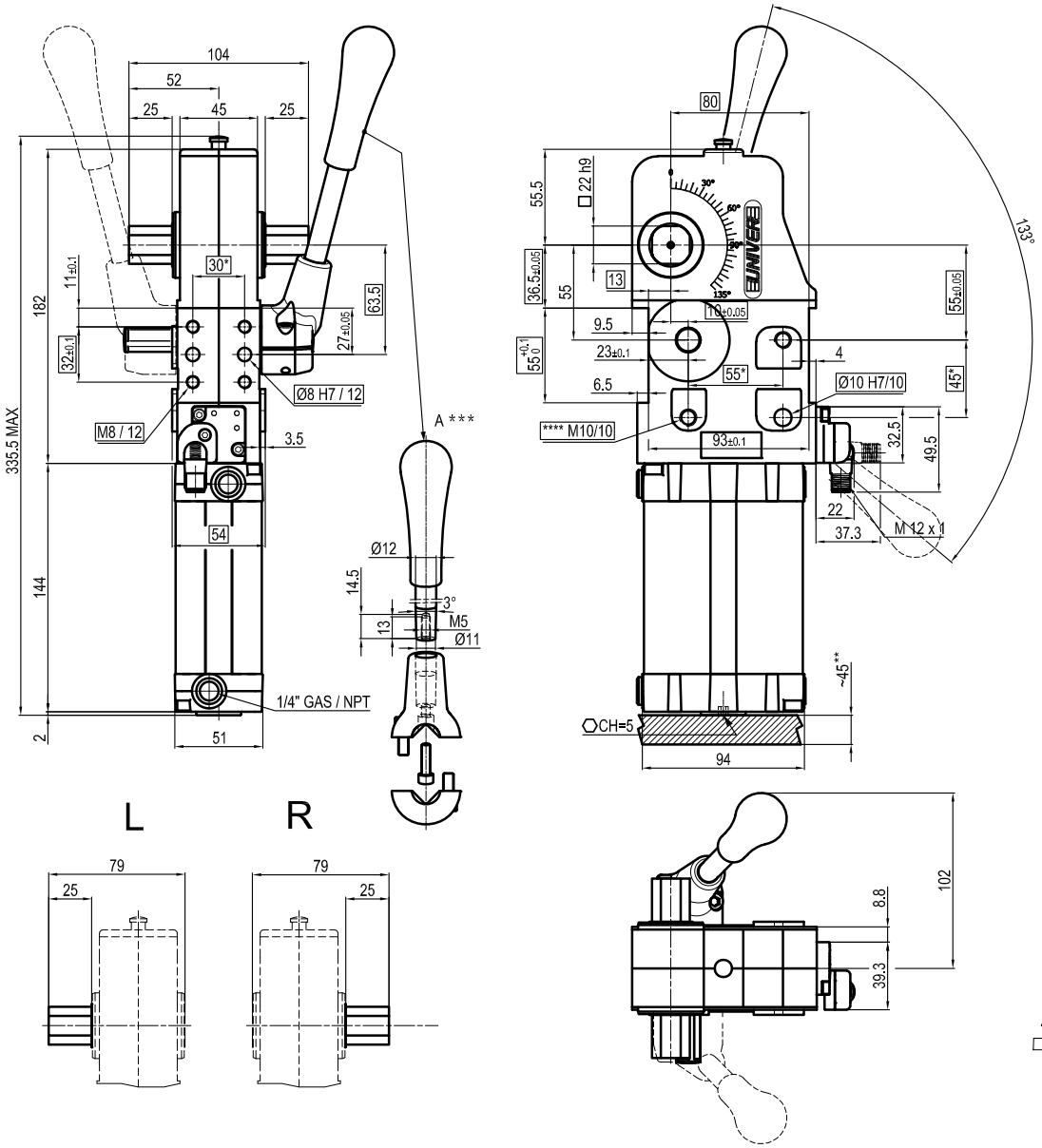
**6 SQUARE SHAFT**
R = Right side only
L = Left side only
N = Both sides

**7 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

**8 PORT THREAD**
G = Gas
N = NPT

**9 PRODUCT REVISION**
Assigned by UNIVER

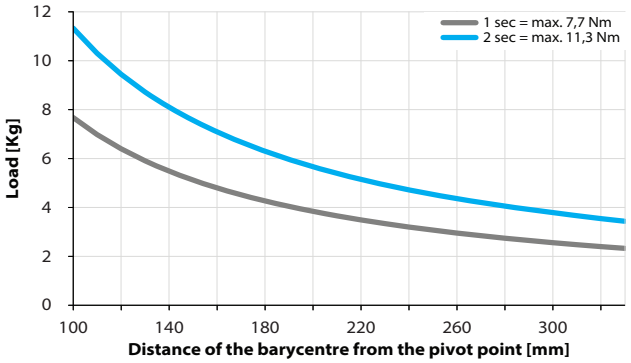
**10 ATEX**
X = ATEX option
See ATEX Catalogue for types and versions



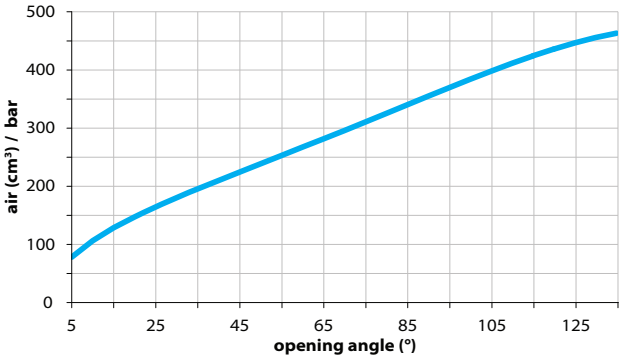

**TOLERANCE BETWEEN DOWELS ± 0,02 BETWEEN SCREW HOLES ± 0,1*
***AREA TO ACCESS ANGLE ADJUSTMENT*
****DIMENSIONS TO BE RESPECTED IN CASE OTHER MANUAL LEVERS ARE USED*
*****SCREW THREAD INSERT*

## Maximum Applicable Load

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




## Air Consumption per Cycle



## Sensors



Electronic (optical)

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



Pneumatic

**DF-UPNW**

## Accessories



Handlever

**UBF255063**



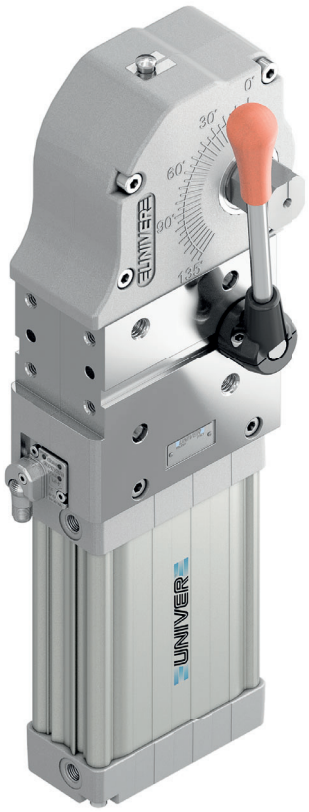
Self holding system

**UBK46P22N** For blade arms
**UBK46P22ND** For wishbone arms

# UCNM 80

## Pneumatic power clamps conforming to the NAAMS standard, Ø80 mm with hand lever

Pneumatic power clamps size Ø80 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
- Integrated compensation system up to 2,9 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 | **80 mm** |
| Holding moment | **4000 Nm** |
| Clamping moment (0,5 MPa) | **1100 Nm** |
| Weight (clamping arm not included) | **9,5 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.*

GLOBAL STANDARD COMPONENTS NAAMS

COMPENSATION

LIGHTWEIGHT

IRREVERSIBLE

ANGLE ADJUSTMENT

OPTICAL SENSOR

## CODIFICATION KEY

| UC | N | M | 80 | N | N | K | G | 0 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |

**1 SERIES**
UC = UNICLAMP Power clamps

**2 STANDARD**
N = NAAMS Standard

**3 VERSION**
M = Pneumatic with hand lever

**4 SIZE**
80 = Ø 80 mm

**5 ARM POSITION**
N = No arm



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

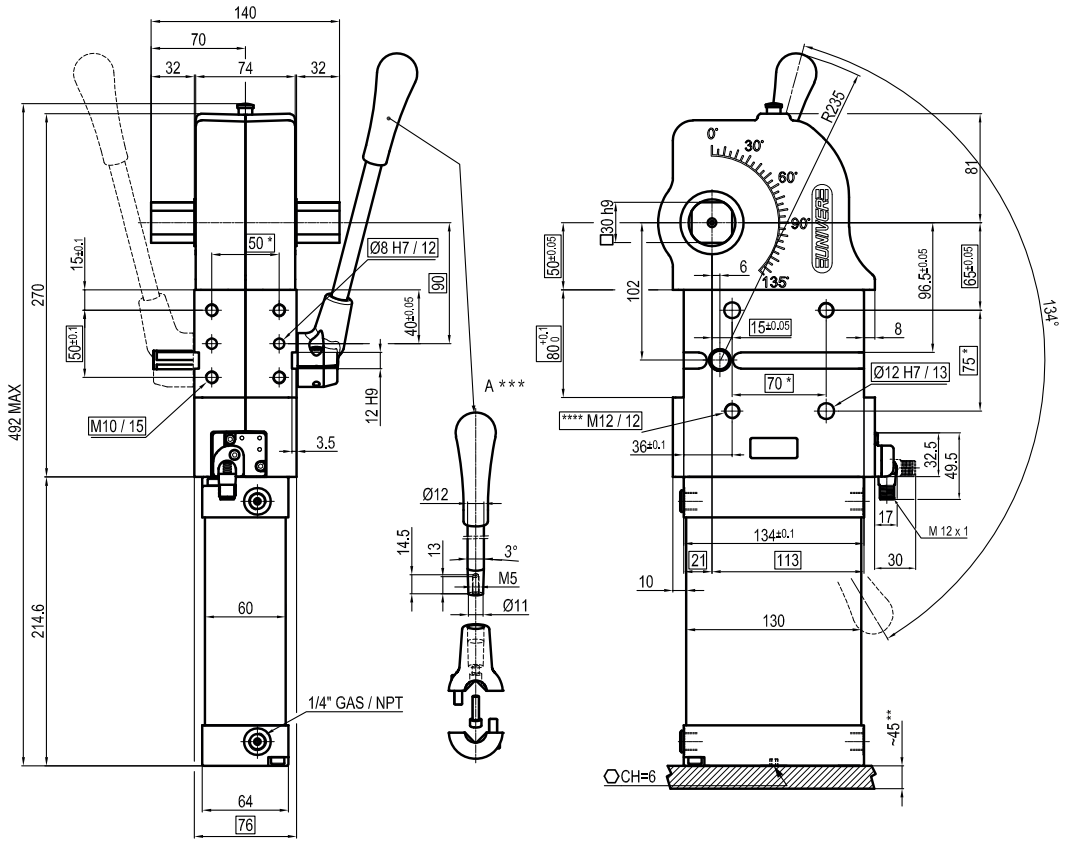
**6 SQUARE SHAFT**
R = Right side only
L = Left side only
N = Both sides

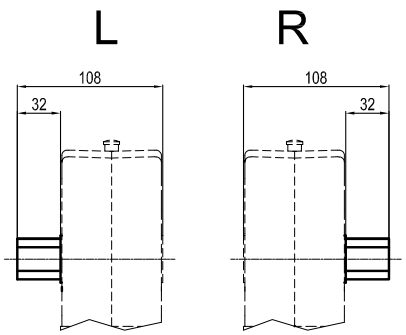
**7 SENSOR**
N = No sensor (with protection plate)
K = Electronic sensor PNP, M12 (DF-K)
D = Pneumatic sensor (DF-UPNW80)
J = Electronic sensor NPN, optical (DF-J)
Y = Electronic sensor PNP, M12 (DF-Y) white LED

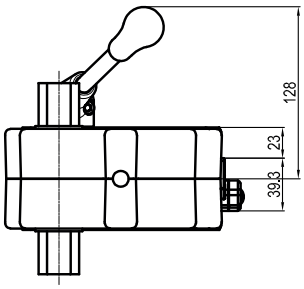
**8 PORT THREAD**
G = Gas
N = NPT

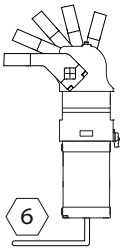
**9 PRODUCT REVISION**
Assigned by UNIVER

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



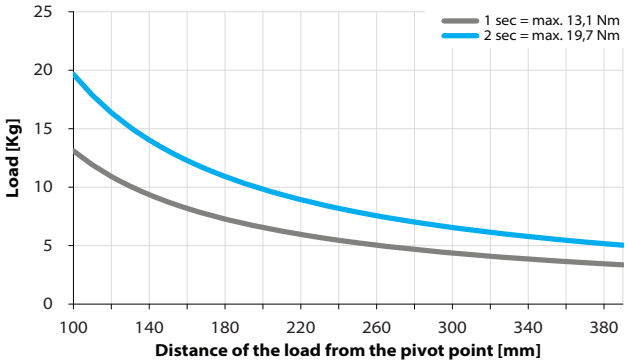



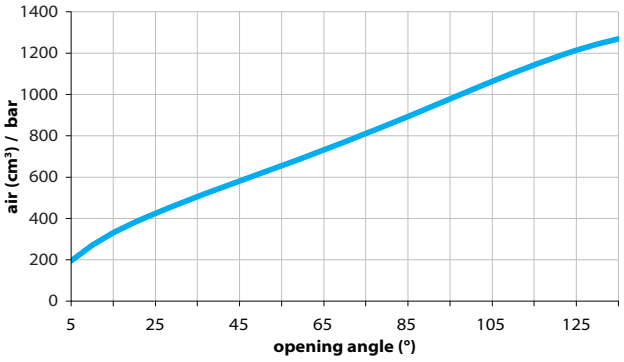

**TOLERANCE BETWEEN DOWELS ± 0,02 BETWEEN SCREW HOLES ± 0,1*
***AREA TO ACCESS ANGLE ADJUSTMENT*
****DIMENSIONS TO BE RESPECTED IN CASE OTHER MANUAL LEVERS ARE USED*

## Maximum Applicable Load

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




## Air Consumption per Cycle



## Sensors



Electronic (optical)

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



Pneumatic

**DF-UPNW80**

## Accessories



Handlever

**UBF2580**



Self holding system

**UBK46P30N** For blade arms
**UBK46P30ND** For wishbone arms