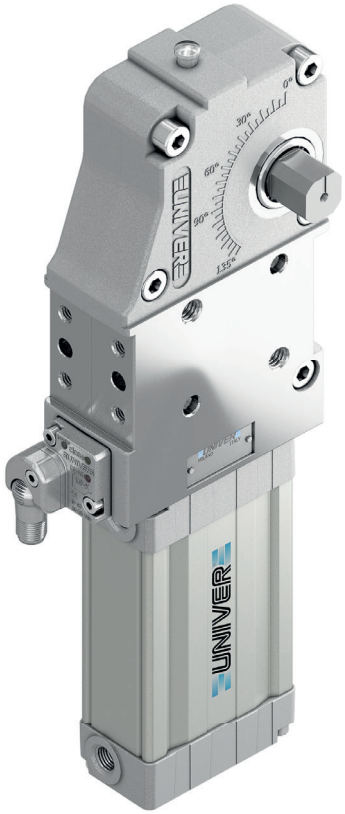
UCNP 50

Pneumatic power clamps conforming to the NAAMS standard, Ø50 mm

Pneumatic power clamps size Ø50 mm, conforming to the NAAMS standard, with 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 1,7 mm
- Version with manual hand lever available
- 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)	**2,7 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.*

GLOBAL STANDARD COMPONENTS NAAMS

COMPENSATION

LIGHTWEIGHT

IRREVERSIBLE

ANGLE ADJUSTMENT

OPTICAL SENSOR

COMPACT

CODIFICATION KEY

UC	N	P	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
P = Pneumatic

4 SIZE
50 = Ø 50 mm

5 ARM POSITION
N = No arm



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

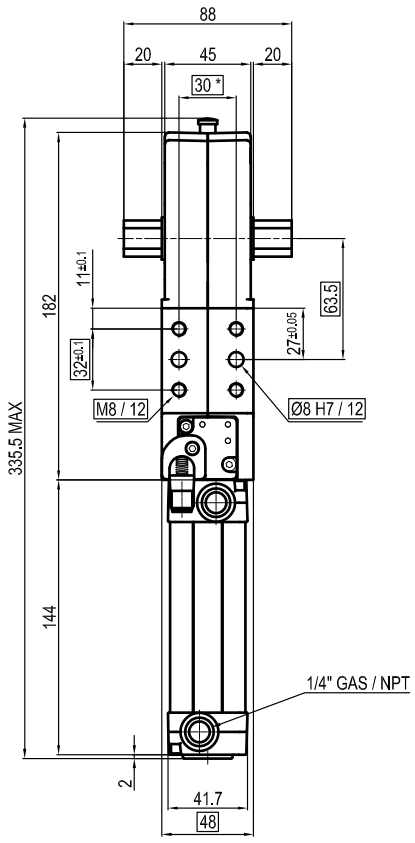
6 SQUARE SHAFT
R = Right side only
L = Left side only
N = Both sides

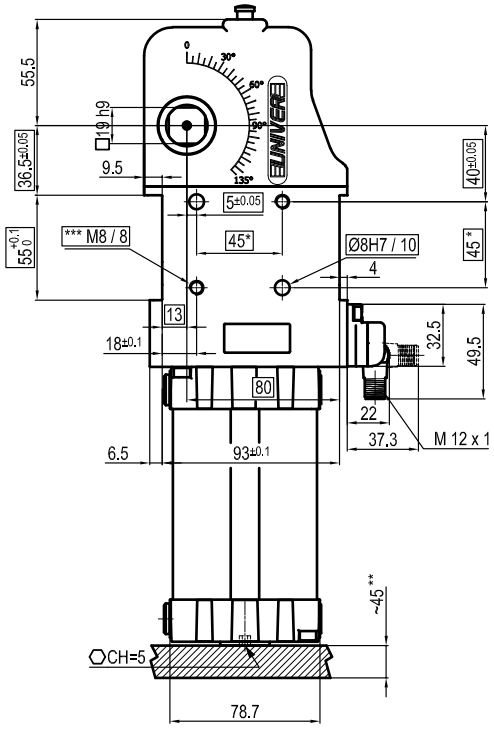
7 SENSOR
N = No sensor (with protection plate)
K = Electronic sensor PNP, M12 (DF-K)
D = Pneumatic sensor (DF-UPNW)
J = Electronic sensor NPN, optical (DF-J)
Y = Electronic sensor PNP, M12 (DF-Y) white LED

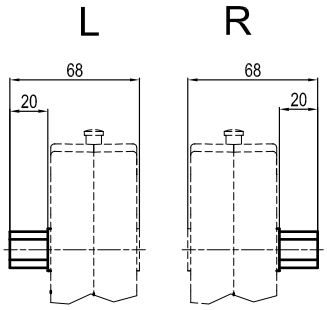
8 PORT THREAD
G = Gas
N = NPT

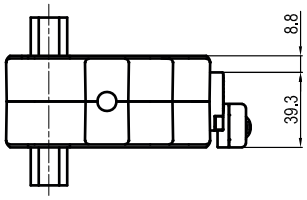
9 PRODUCT REVISION
Assigned by UNIVER

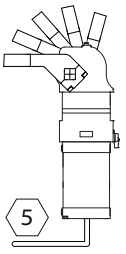
10 ATEX
X = ATEX option
See ATEX Catalogue for types and versions







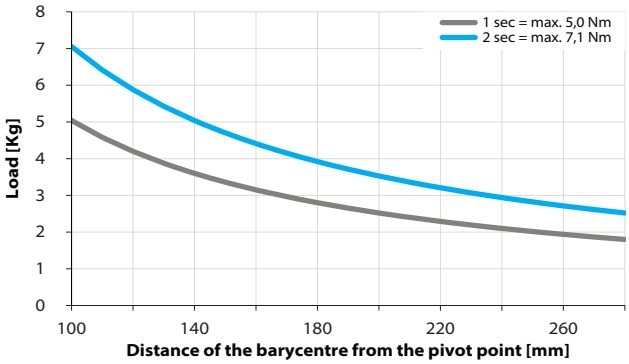




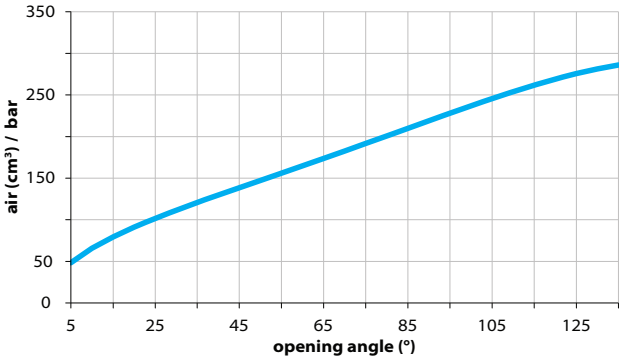
**TOLERANCE BETWEEN DOWELS ±0,02 BETWEEN SCREW HOLES ± 0,1*
***AREA TO ACCESS ANGLE ADJUSTMENT*
****SCREW THREAD INSERT*

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



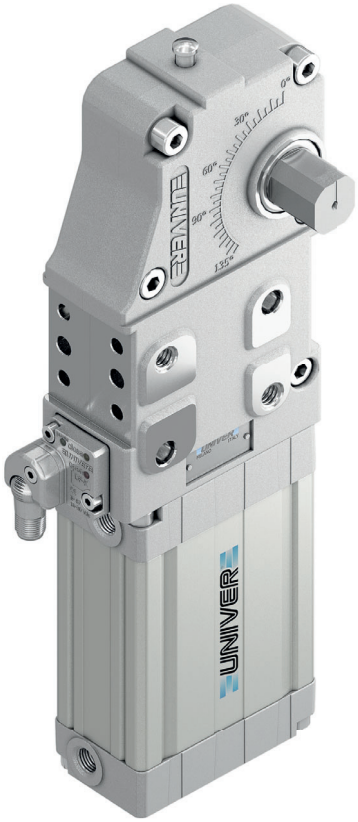
Self holding system

UBK46P19N For blade arms
UBK46P19ND For wishbone arms

UCNP 63

Pneumatic power clamps conforming to the NAAMS standard, Ø63 mm

Pneumatic power clamps size Ø63 mm conforming to the NAAMS standard with 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
- Version with manual hand lever available
- 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	**63 mm**
Holding moment	**1750 Nm**
Clamping moment (0,5 MPa)	**420 Nm**
Weight (clamping arm not included)	**3,1 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	P	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
P = Pneumatic

4 SIZE
63 = Ø 63 mm

5 ARM POSITION
N = No arm



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

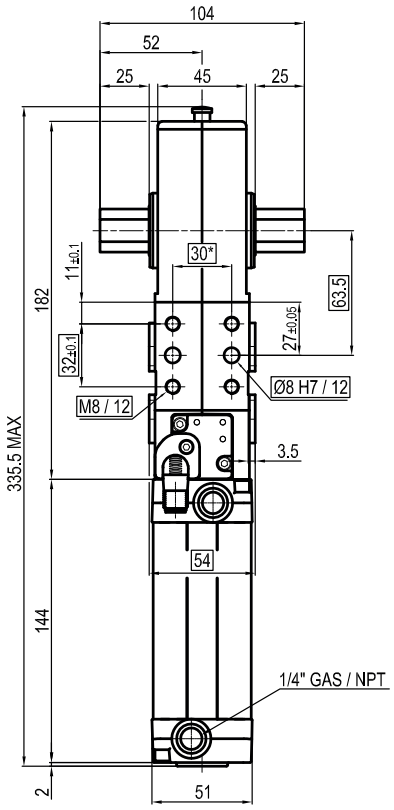
6 SQUARE SHAFT
R = Right side only
L = Left side only
N = Both sides

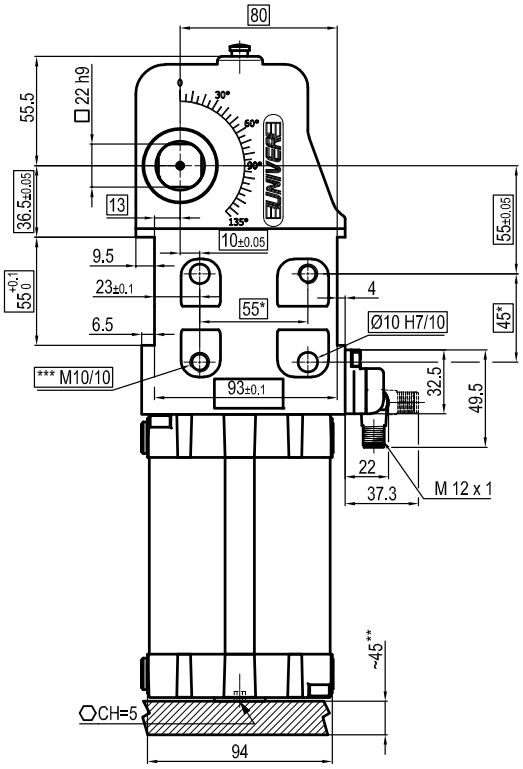
7 SENSOR
N = No sensor (with protection plate)
K = Electronic sensor PNP, M12 (DF-K)
D = Pneumatic sensor (DF-UPNW)
J = Electronic sensor NPN, optical (DF-J)
Y = Electronic sensor PNP, M12 (DF-Y) white LED

8 PORT THREAD
G = Gas
N = NPT

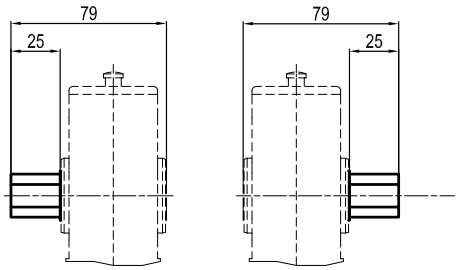
9 PRODUCT REVISION
Assigned by UNIVER

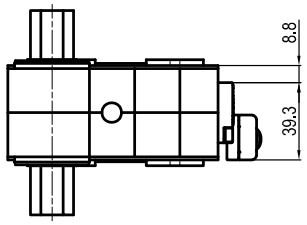
10 ATEX
X = ATEX option
See ATEX Catalogue for types and versions

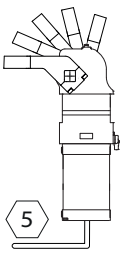




L R



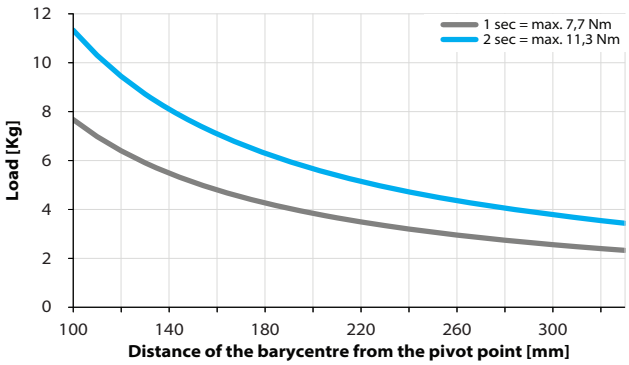




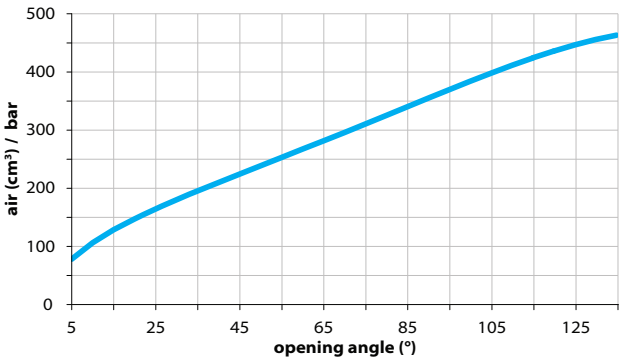
**TOLERANCE BETWEEN DOWELS ± 0,02 BETWEEN SCREW HOLES ± 0,1*
***AREA TO ACCESS ANGLE ADJUSTMENT*
****SCREW THREAD INSERT*

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



Self holding system

UBK46P22N For blade arms
UBK46P22ND For wishbone arms

UCNP 80

Pneumatic power clamps conforming to the NAAMS standard, Ø80 mm

Pneumatic power clamps size Ø80 mm conforming to the NAAMS standard with 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
- Version with manual hand lever available
- 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

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)	**8,6 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	P	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
P = Pneumatic

4 SIZE
80 = Ø 80 mm

5 ARM POSITION
N = No arm



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

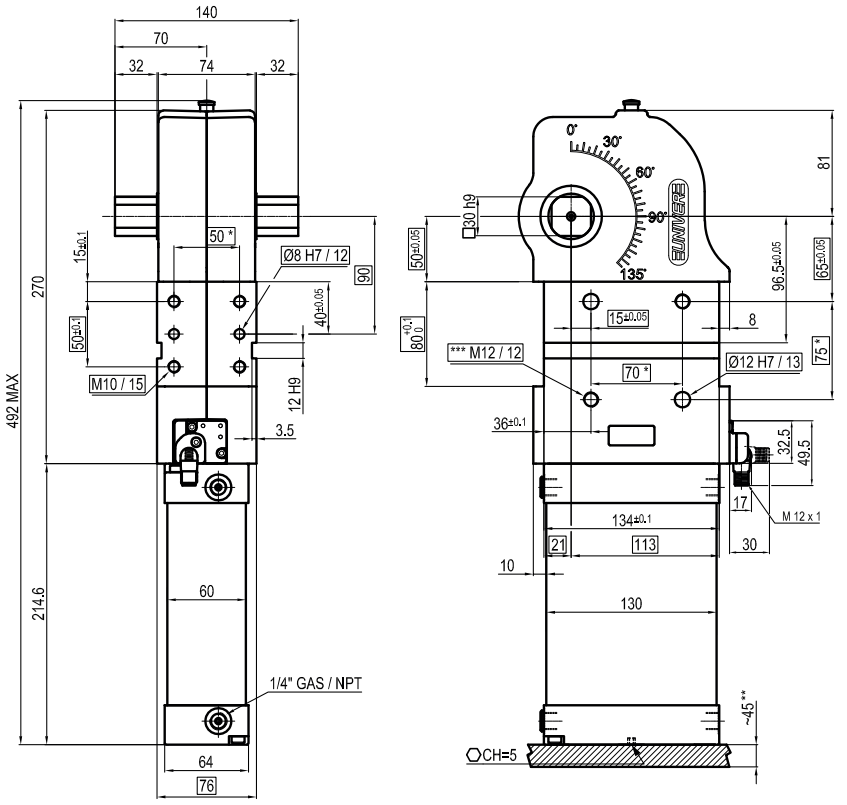
6 SQUARE SHAFT
R = Right side only
L = Left side only
N = Both sides

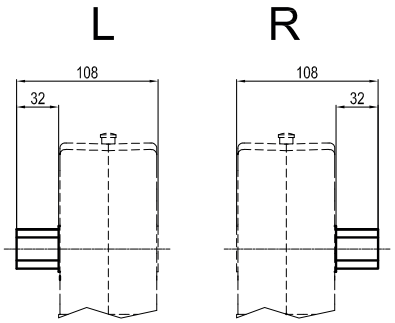
7 SENSOR
N = No sensor (with protection plate)
K = Electronic sensor PNP, M12 (DF-K)
D = Pneumatic sensor (DF-UPNW80)
J = Electronic sensor NPN, optical (DF-J)
Y = Electronic sensor PNP, M12 (DF-Y) white LED

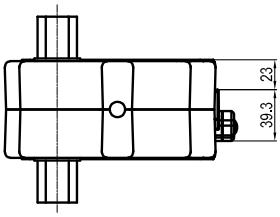
8 PORT THREAD
G = Gas
N = NPT

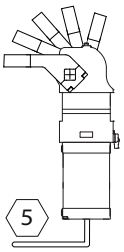
9 PRODUCT REVISION
Assigned by UNIVER

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





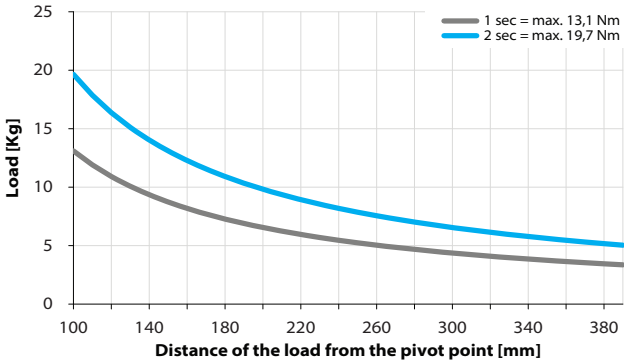




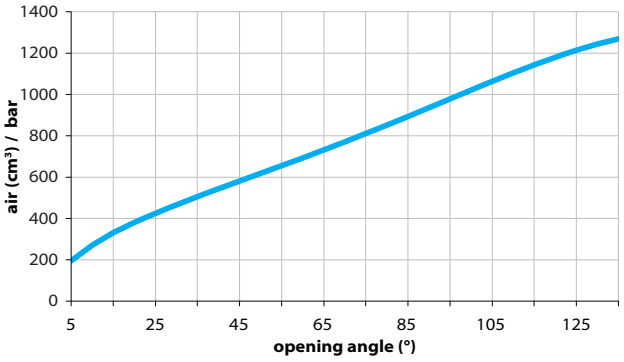
**TOLERANCE BETWEEN DOWELS ± 0,02 BETWEEN SCREW HOLES ± 0,1*
***AREA TO ACCESS ANGLE ADJUSTMENT*
****SCREW THREAD INSERT*

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



Self holding system

UBK46P30N For blade arms
UBK46P30ND For wishbone arms