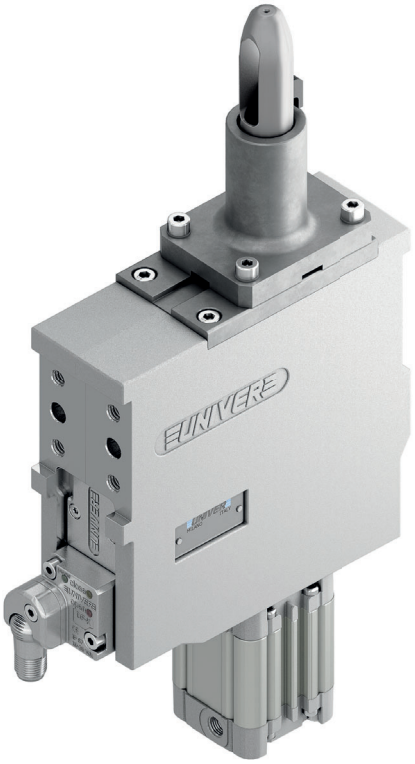
USP 32

Pneumatic pin clamp Ø32 mm



Pneumatic pin clamps mainly designed for centring and clamping metal sheets in BIW underbody applications.

- Integrated compensation up to 1,2 mm
- Double metal scraper for protection against dust and welding debris
- Toggle-joint mechanism
- High repeatability
- High wear resistance steel pin
- Electronic sensor
- Available version with plate machined from solid (no shimming)

CHARACTERISTICS

Operating temperature	**5° ÷ 45° C**
Min./Max. Operating pressure	**0,4 / 0,6 MPa**
Bore Ø	**32 mm**
Clamping force	**1500 N**
Weight (without plate, pin and hook)	**2,6 kg**
Pneumatic supply ports	**G1/8**
Sensor	**electronic (optical)**
Supply voltage	**10 ÷ 30 Vdc**
IP code	**IP 65**

IRREVERSIBLE

LIGHTWEIGHT

COMPENSATION

METAL SCRAPER

OPTICAL SENSOR

HIGH REPEATABILITY

CODIFICATION KEY

US	P	32	J	3	1	-	K	0		
1	2	3	4	5	6	7	8	9	10	

1 SERIES
US = UNICLAMP Pin clamp with compensation

2 VERSION
P = Pneumatic

3 SIZE
32 = Ø32 mm

4 MODEL
J = Standard
R = With mechanical locking/unlocking device

5 PIN DIAMETER
1< = Ø18 mm
2 = Ø20 mm
3 = Ø25 mm
4 = Ø30 mm
5 = Ø35 mm
6 = Ø40 mm
For pin Ø outside the mentioned range, please contact our sales department

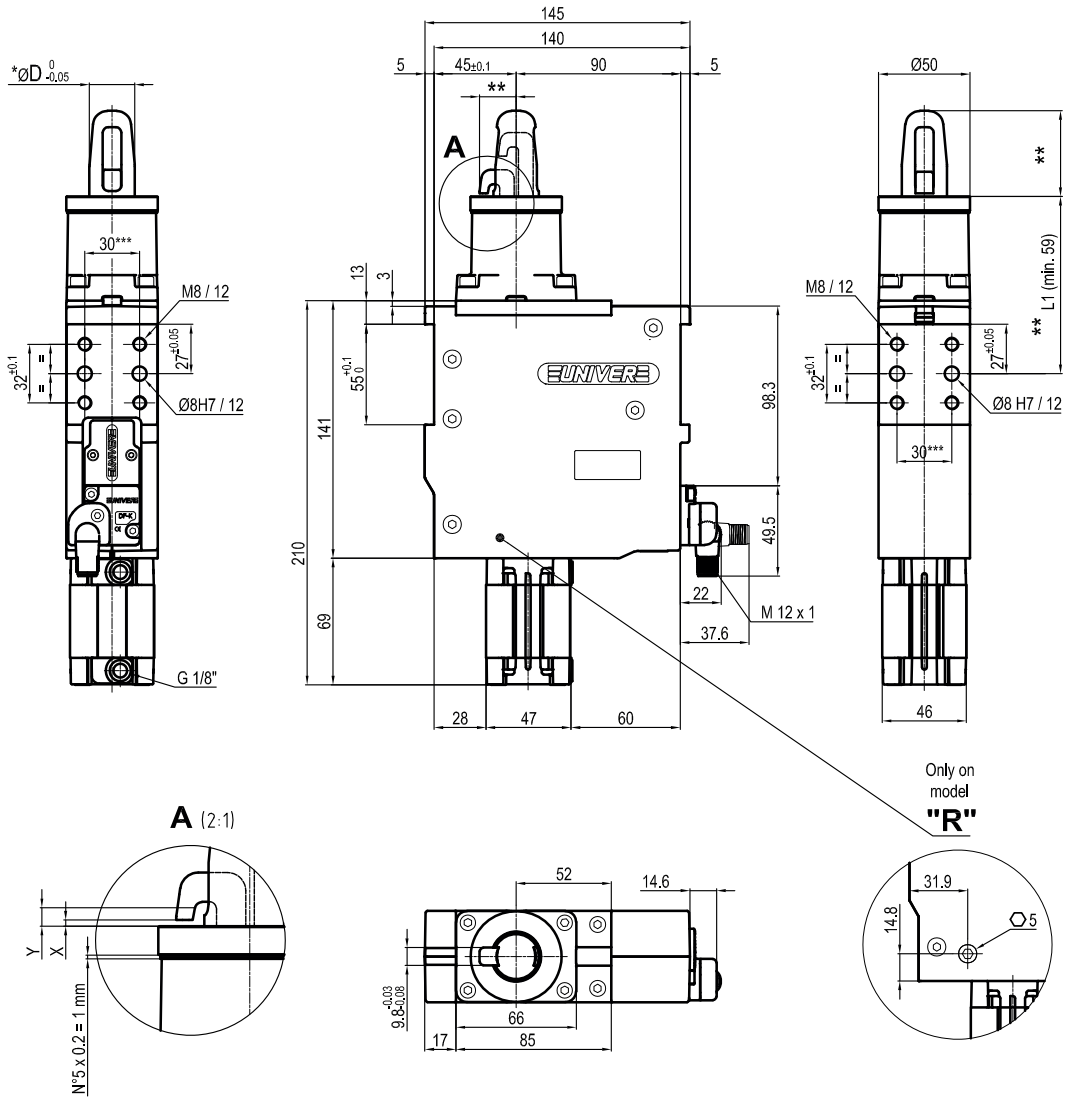
6 LOCATING PIN
0 = Locating pin not included
1 = Locating pin included

7 PROGRESSIVE NUMBERING
Progressive numbers for special products are assigned by the Sales Department

8 SENSOR
N = No sensor (with protection plate)
K = Electronic sensor PNP, M12 (DF-K)
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



*Pin Option	ØD
1	18
2	20
3	25
4	30
5	35
6	40

X = *Metal sheet*
Y = *Clamping range (X + 1,2 mm Max.)*
VERSION WITHOUT PIN AND HOOK AVAILABLE UPON REQUEST
*** MISSING DIMENSION TO BE DEFINED ACCORDING TO CUSTOMER SPECIFICATIONS*
**** TOLERANCE BETWEEN DOWEL HOLES ± 0,02, BETWEEN SCREW HOLES ± 0,1*

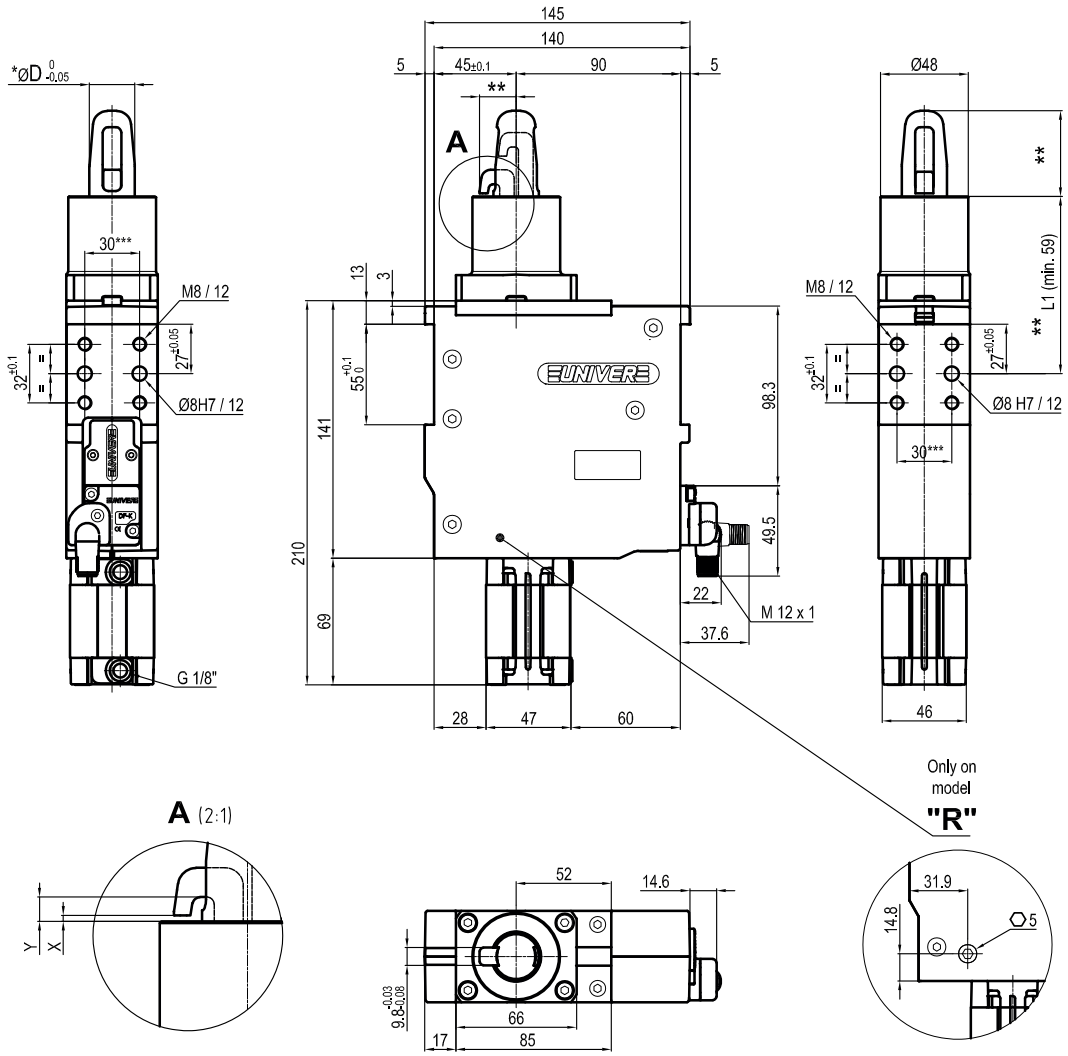
Sensors



Electronic (optical)

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

Version with plate machined from solid (no shimming)



*Pin Option	ØD
1	18
2	20
3	25
4	30
5	35
6	40

X = *Metal sheet*
Y = *Clamping range (X + 1,2 mm Max.)*
VERSION WITHOUT PIN AND HOOK AVAILABLE UPON REQUEST
*** MISSING DIMENSION TO BE DEFINED ACCORDING TO CUSTOMER SPECIFICATIONS*
**** TOLERANCE BETWEEN DOWEL HOLES ± 0,02, BETWEEN SCREW HOLES ± 0,1*

Sensors



Electronic (optical)

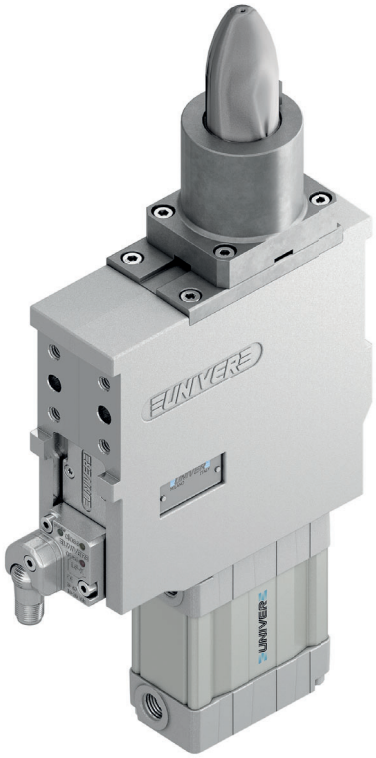
DF-K PNP M12
DF-J NPN M12
DF-Y PNP M12 White LED

USP 50

Pneumatic pin clamp Ø50 mm

Pneumatic pin clamps mainly designed for centring and clamping metal sheets in BIW underbody applications.

- Integrated compensation up to 2,3 mm
- Double metal scraper for protection against dust and welding debris
- Toggle-joint mechanism
- High repeatability
- High wear resistance steel pin
- Electronic sensor
- Available version with plate machined from solid (no shimming)



CHARACTERISTICS

Operating temperature	**5° ÷ 45° C**
Min./Max. Operating pressure	**0,4 / 0,6 MPa**
Bore Ø	**50 mm**
Clamping force	**3500 N**
Weight (without plate, pin and hook)	**2,9 kg**
Pneumatic supply ports	**G1/4 on both sides**
Sensor	**electronic (optical)**
Supply voltage	**10 ÷ 30 Vdc**
IP code	**IP 65**

6

IRREVERSIBLE

LIGHTWEIGHT

COMPENSATION

METAL SCRAPER

OPTICAL SENSOR

HIGH REPEATABILITY

CODIFICATION KEY

US	P	50	J	3	1	-	K	0		
1	2	3	4	5	6	7	8	9		

1 SERIES
US = UNICLAMP Pin clamp with compensation

2 VERSION
P = Pneumatic

3 SIZE
50 = Ø50 mm

4 MODEL
J = Standard
R = With mechanical locking/unlocking device

5 PIN DIAMETER
1< = Ø18 mm
2 = Ø20 mm
3 = Ø25 mm
4 = Ø30 mm
5 = Ø35 mm
6 = Ø40 mm
For pin Ø outside the mentioned range, please contact our sales department

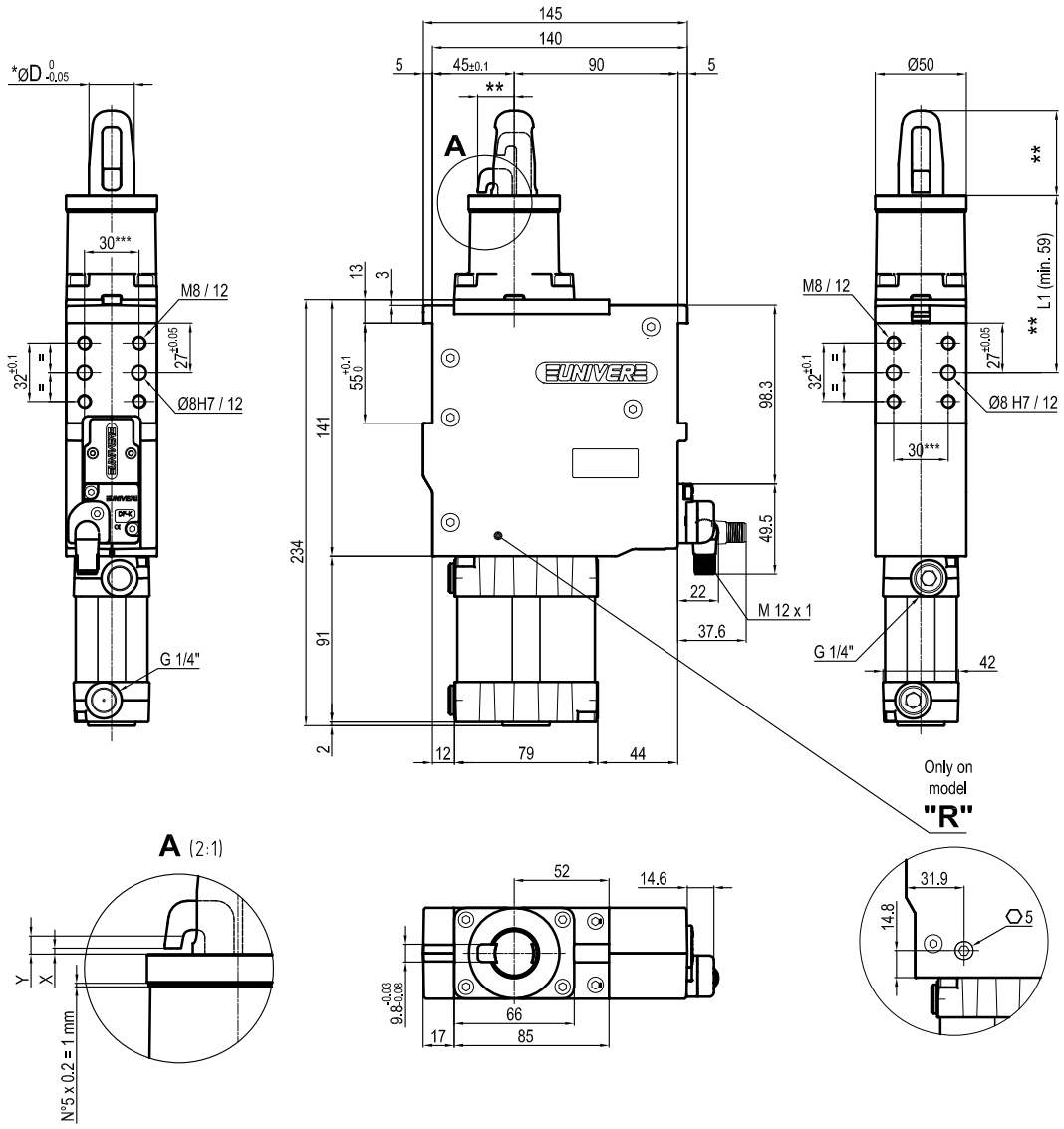
6 LOCATING PIN
0 = Locating pin not included
1 = Locating pin included

7 PROGRESSIVE NUMBERING
Progressive numbers for special products are assigned by the Sales Department

8 SENSOR
N = No sensor (with protection plate)
K = Electronic sensor PNP, M12 (DF-K)
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



*Pin Option	ØD
1	18
2	20
3	25
4	30
5	35
6	40

X = *Metal sheet*
Y = *Clamping range (X + 2,3 mm Max.)*
VERSION WITHOUT PIN AND HOOK AVAILABLE UPON REQUEST
*** MISSING DIMENSION TO BE DEFINED ACCORDING TO CUSTOMER SPECIFICATIONS*
**** TOLERANCE BETWEEN DOWEL HOLES ± 0,02, BETWEEN SCREW HOLES ± 0,1*

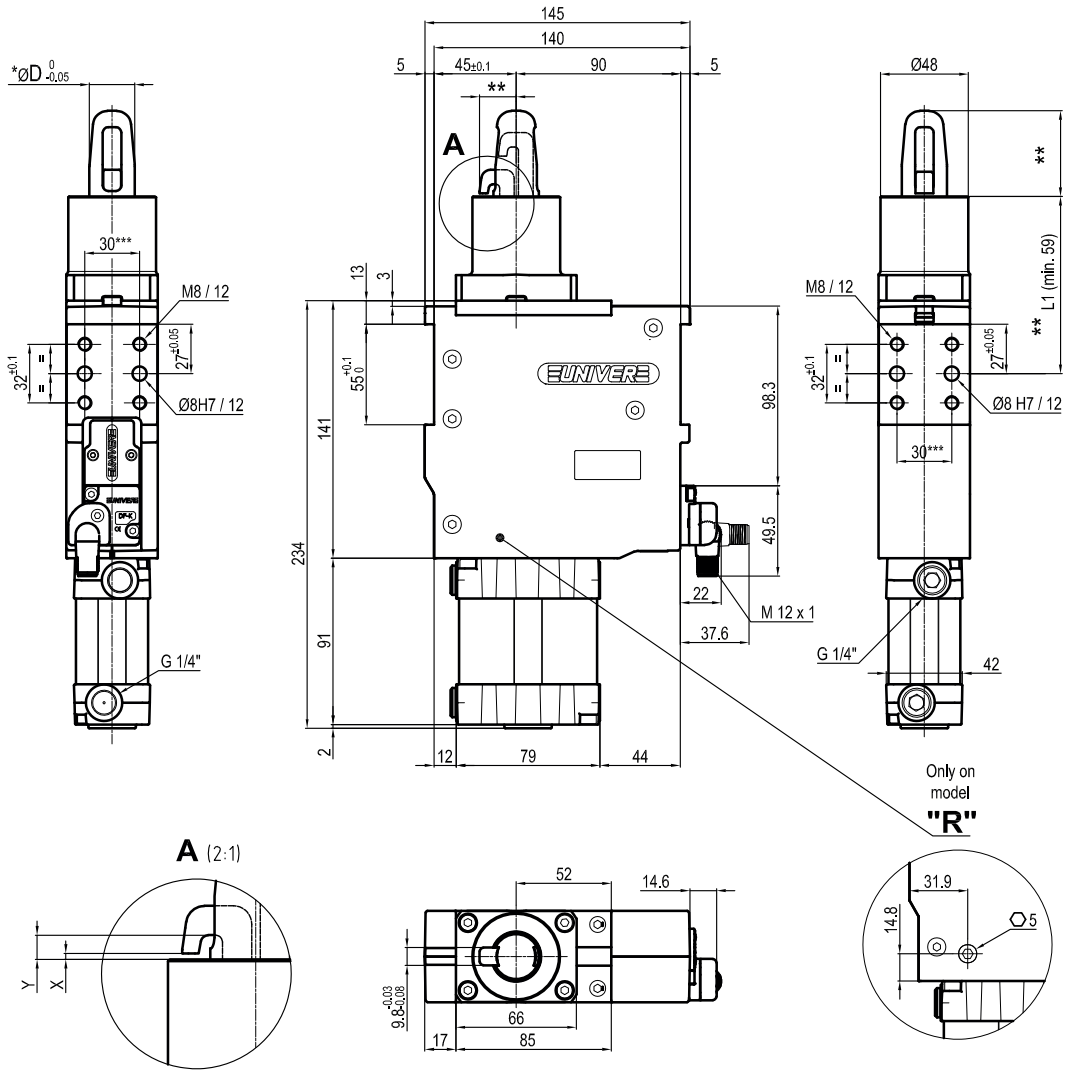
Sensors



Electronic (optical)

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

Version with plate machined from solid (no shimming)



*Pin Option	ØD
1	18
2	20
3	25
4	30
5	35
6	40

X = *Metal sheet*
Y = *Clamping range (X + 2,3 mm Max.)*
VERSION WITHOUT PIN AND HOOK AVAILABLE UPON REQUEST
*** MISSING DIMENSION TO BE DEFINED ACCORDING TO CUSTOMER SPECIFICATIONS*
**** TOLERANCE BETWEEN DOWEL HOLES ± 0,02, BETWEEN SCREW HOLES ± 0,1*

Sensors

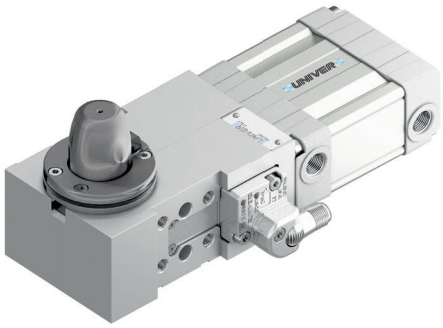


Electronic (optical)

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

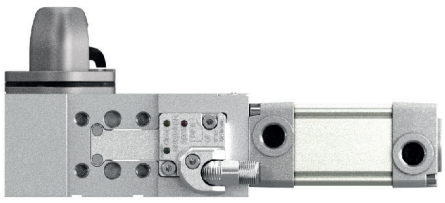
USP 50U

Pneumatic pin clamp - Horizontal shape, Ø50 mm



Pneumatic pin clamp with horizontal shape, mainly designed for centering and clamping metal sheets in BIW underbody applications. Thanks to the flat shape it is widely used in applications where the installation space is very small

- Integrated compensation up to 0,5 mm
- Protection against welding debris and dust
- Toggle-joint mechanism
- High repeatability
- Two sided sensor mounting
- Electronic sensor



CHARACTERISTICS

Operating temperature	**5° ÷ 45° C**
Min./Max. Operating pressure	**0,4 / 0,6 MPa**
Bore Ø	**50 mm**
Clamping force	**2500 N**
Weight (without plate, pin and hook)	**2,2 kg**
Pneumatic supply ports	**G1/8 on both sides**
Sensor	**electronic (optical)**
Supply voltage	**10 ÷ 30 Vdc**
IP code	**IP 65**

IRREVERSIBLE

LIGHTWEIGHT

METAL SCRAPER

OPTICAL SENSOR

HIGH REPEATABILITY

CODIFICATION KEY

US	P	50	U	3	1	L	-	K		
1	2	3	4	5	6	7	8	9	10	11

1 SERIES
US = UNICLAMP Pin clamp with compensation

2 VERSION
P = Pneumatic

3 SIZE
50 = Ø50 mm

4 MODEL
U = Horizontal shape

5 PIN DIAMETER
1< = Ø19 mm
2 = Ø20 mm
3 = Ø25 mm
4 = Ø30 mm
5 = Ø35 mm
For pin Ø outside the mentioned range, please contact our sales department

6 LOCATING PIN
0 = Locating pin not included
1 = Locating pin included

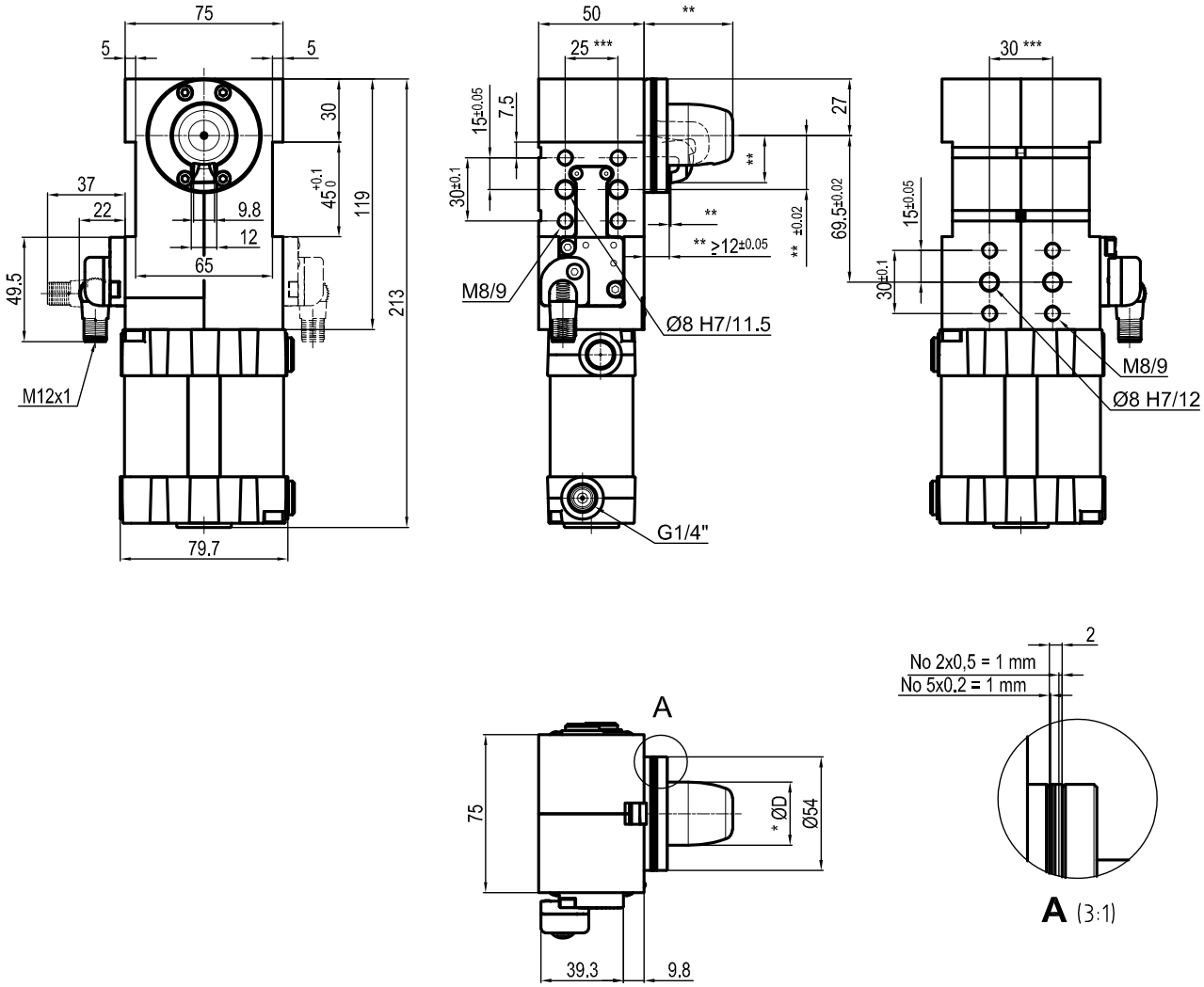
7 SENSOR POSITION
L = Left side
R = Right side

8 PROGRESSIVE NUMBERING
Progressive numbers for special products are assigned by the Sales Department

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

10 PRODUCT REVISION
Assigned by UNIVER

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



*Pin Option	ØD
1	<=19
2	20
3	25
4	30
5	35
6	40

*** MISSING DIMENSION TO BE DEFINED ACCORDING TO CUSTOMER SPECIFICATIONS*
**** TOLERANCE BETWEEN DOWEL HOLES ± 0,02, BETWEEN SCREW HOLES ± 0,1*
THE SENSOR CAN BE MOUNTED ON EITHER RIGHT OR LEFT SIDE

Sensors



Electronic (optical)

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