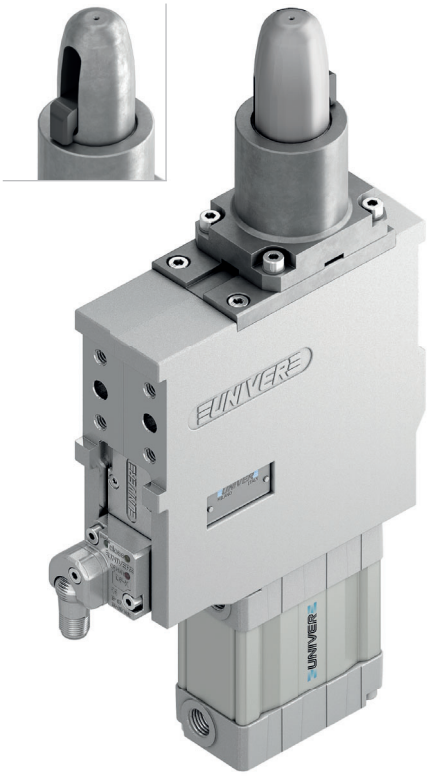
USS 50

Pneumatic pin clamp Ø50 mm, orientable hook



Pneumatic pin clamps with orientable hook position and high compensation system mainly designed for centering 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
- Hook position: 0/180°
- 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

0/180°

CODIFICATION KEY

US	S	50	J	B	1	0	-	K	0		
1	2	3	4	5	6	7	8	9	10	11	

1 SERIES
US = UNICLAMP Pin clamp with compensation

2 VERSION
S = Pneumatic with orientable hook

3 SIZE
50 = Ø50 mm

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

5 HOOK POSITION
B = Standard
C = Rotated by 180°

6 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

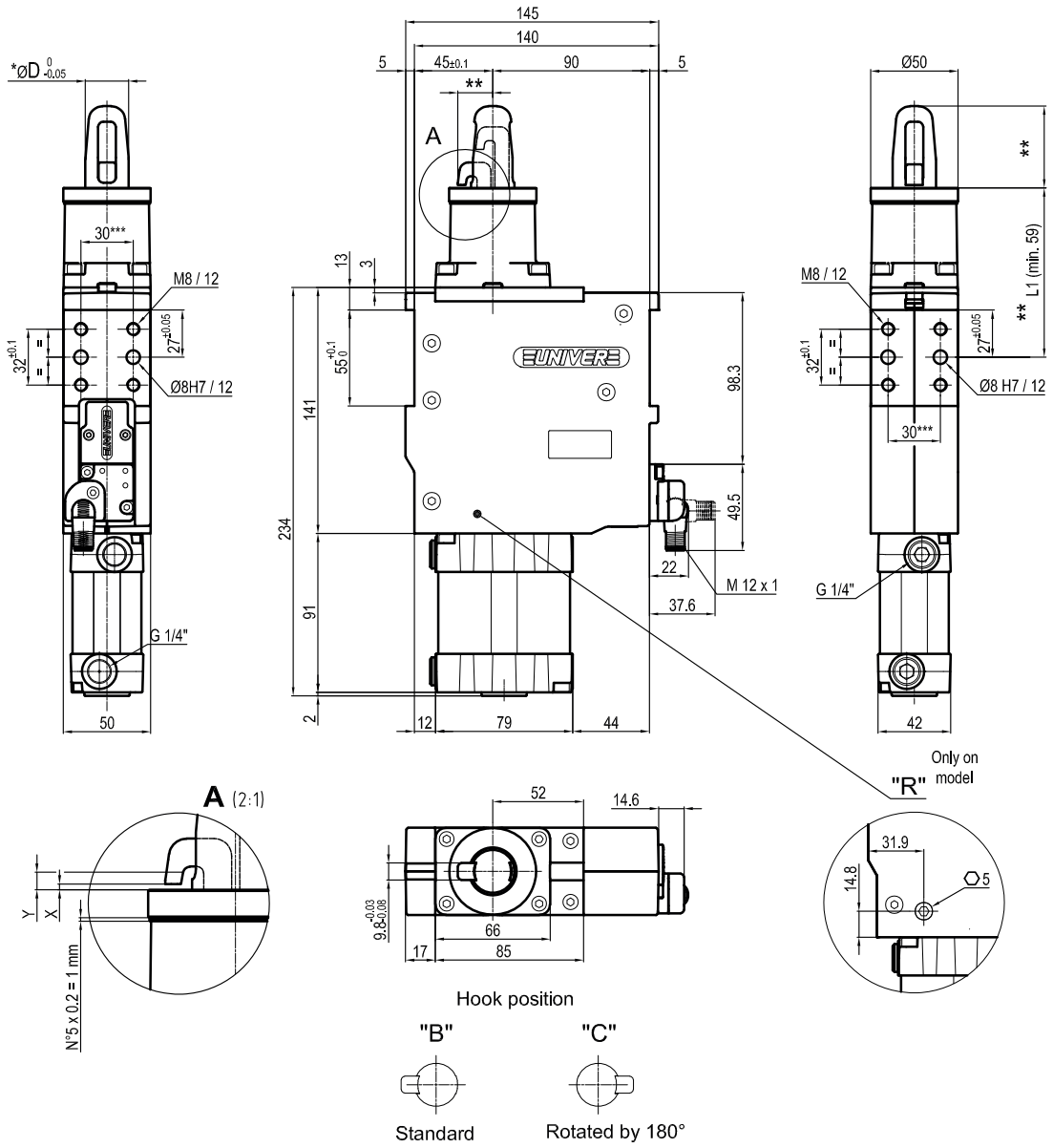
7 LOCATING PIN
0 = Locating pin not included
1 = Locating pin included

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	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*

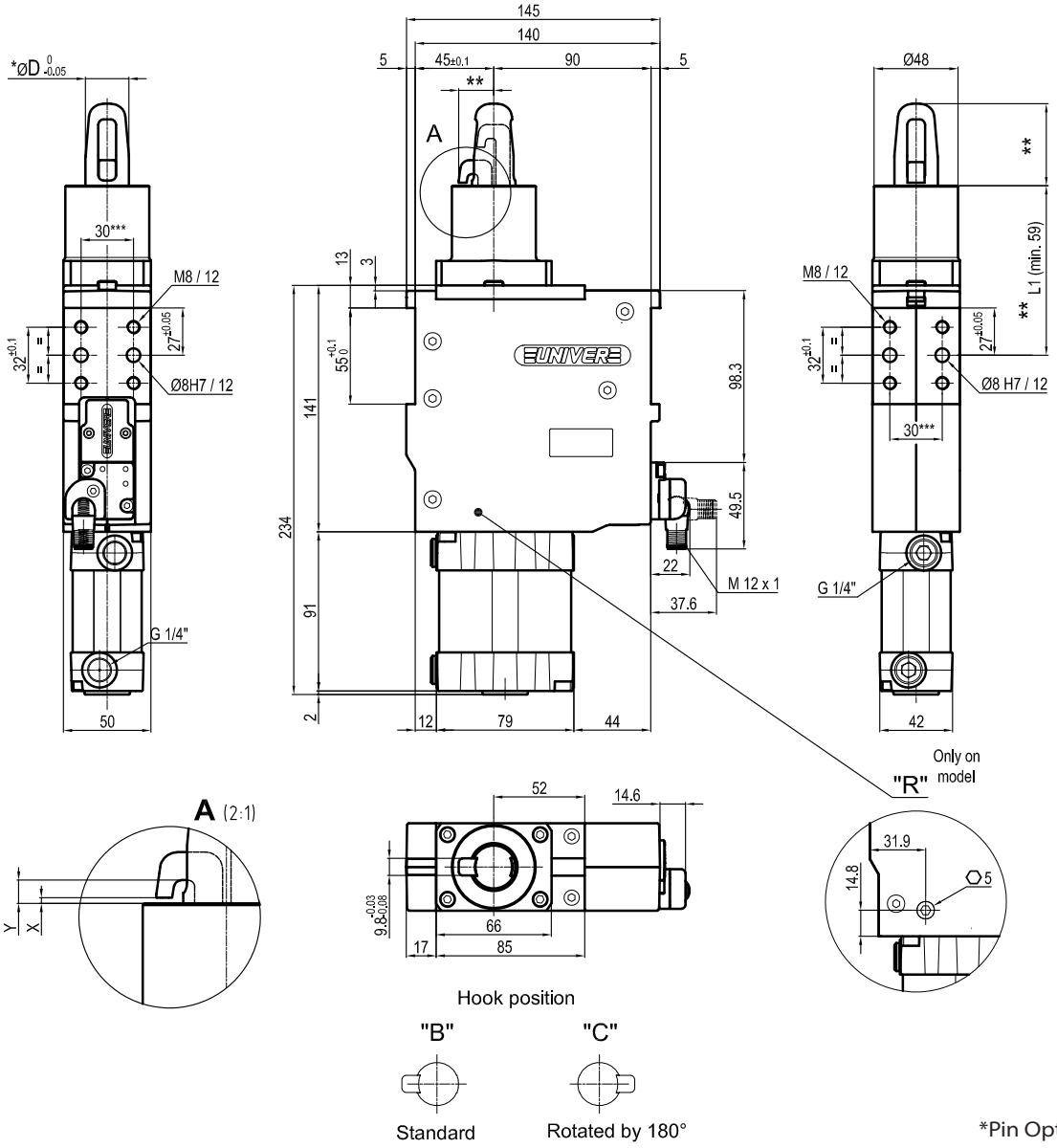
Sensors



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

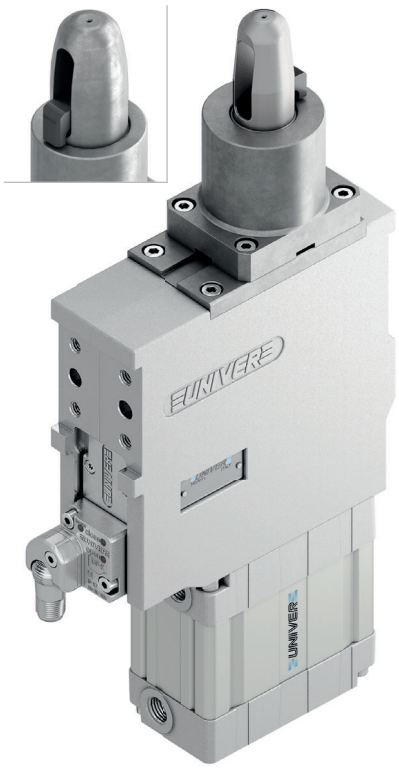


Electronic (optical)

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

USS 63

Pneumatic pin clamp Ø63 mm, orientable hook, high compensation



Pneumatic pin clamps with orientable hook position and high compensation system mainly designed for centering and clamping metal sheets in BIW underbody applications.

- Integrated compensation up to 6 mm
- Double metal scraper for protection against dust and welding debris
- Toggle-joint mechanism
- High repeatability
- High wear resistance steel pin
- Electronic sensor
- Hook position: 0/180°
- 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	**63 mm**
Clamping force	**3500 N**
Weight (without plate, pin and hook)	**3,1 kg**
Pneumatic supply ports	**G1/4 on both sides**
Sensor	**electronic (optical)**
Supply voltage	**10 ÷ 30 Vdc**
IP code	**IP 65**

IRREVERSIBLE

LIGHTWEIGHT

COMPENSATION

METAL SCRAPER

OPTICAL SENSOR

HIGH REPEATABILITY

0/180°

CODIFICATION KEY

US	S	63	J	B	1	0	-	K	0		
1	2	3	4	5	6	7	8	9	10	11	

1 SERIES
US = UNICLAMP Pin clamp with compensation

2 VERSION
S = Pneumatic with orientable hook

3 SIZE
63 = Ø63 mm

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

5 HOOK POSITION
B = Standard
C = Rotated by 180°

6 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

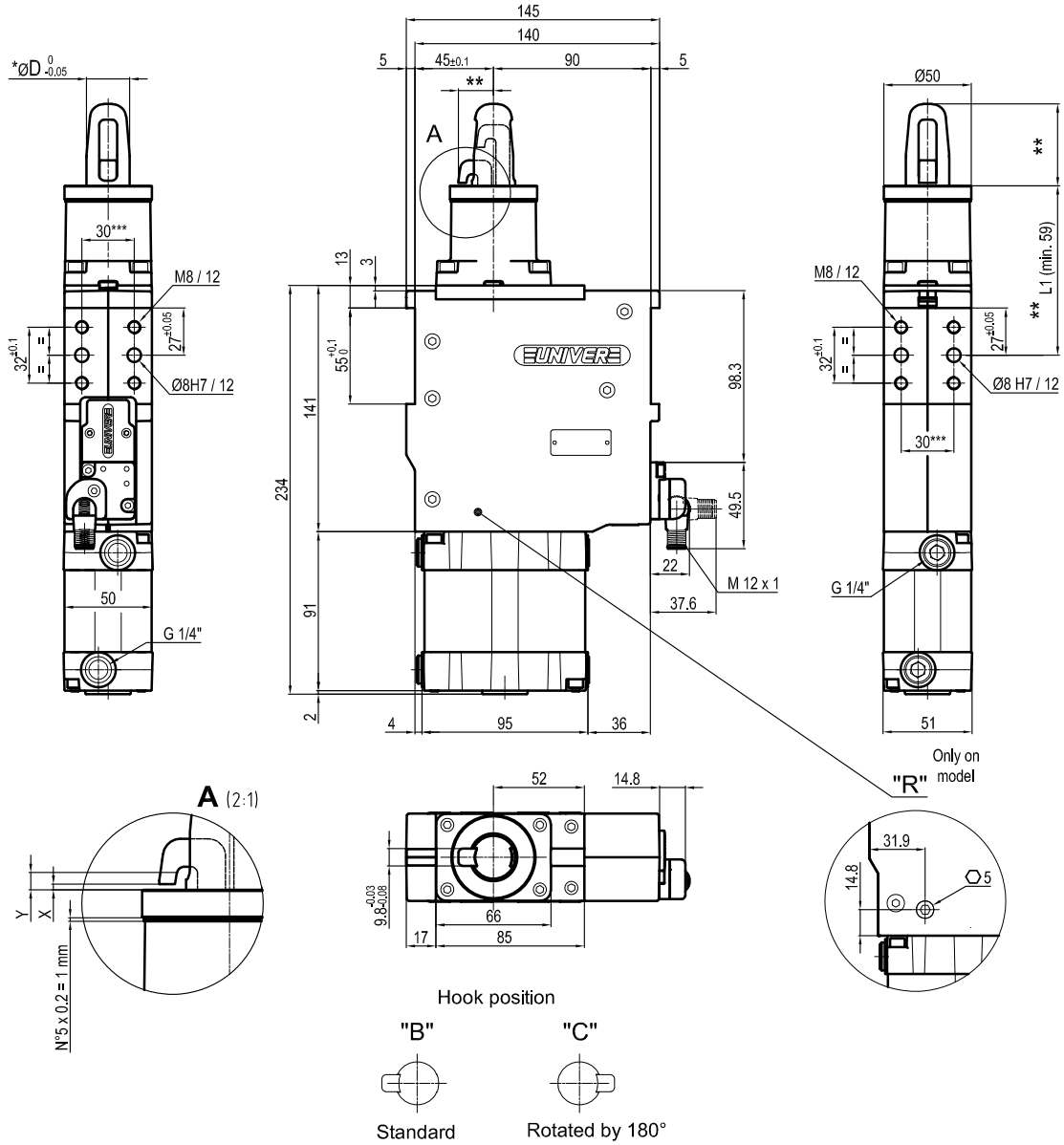
7 LOCATING PIN
0 = Locating pin not included
1 = Locating pin included

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	18
2	20
3	25
4	30
5	35
6	40

X = *Metal sheet*
Y = *Clamping range (X + 6 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*

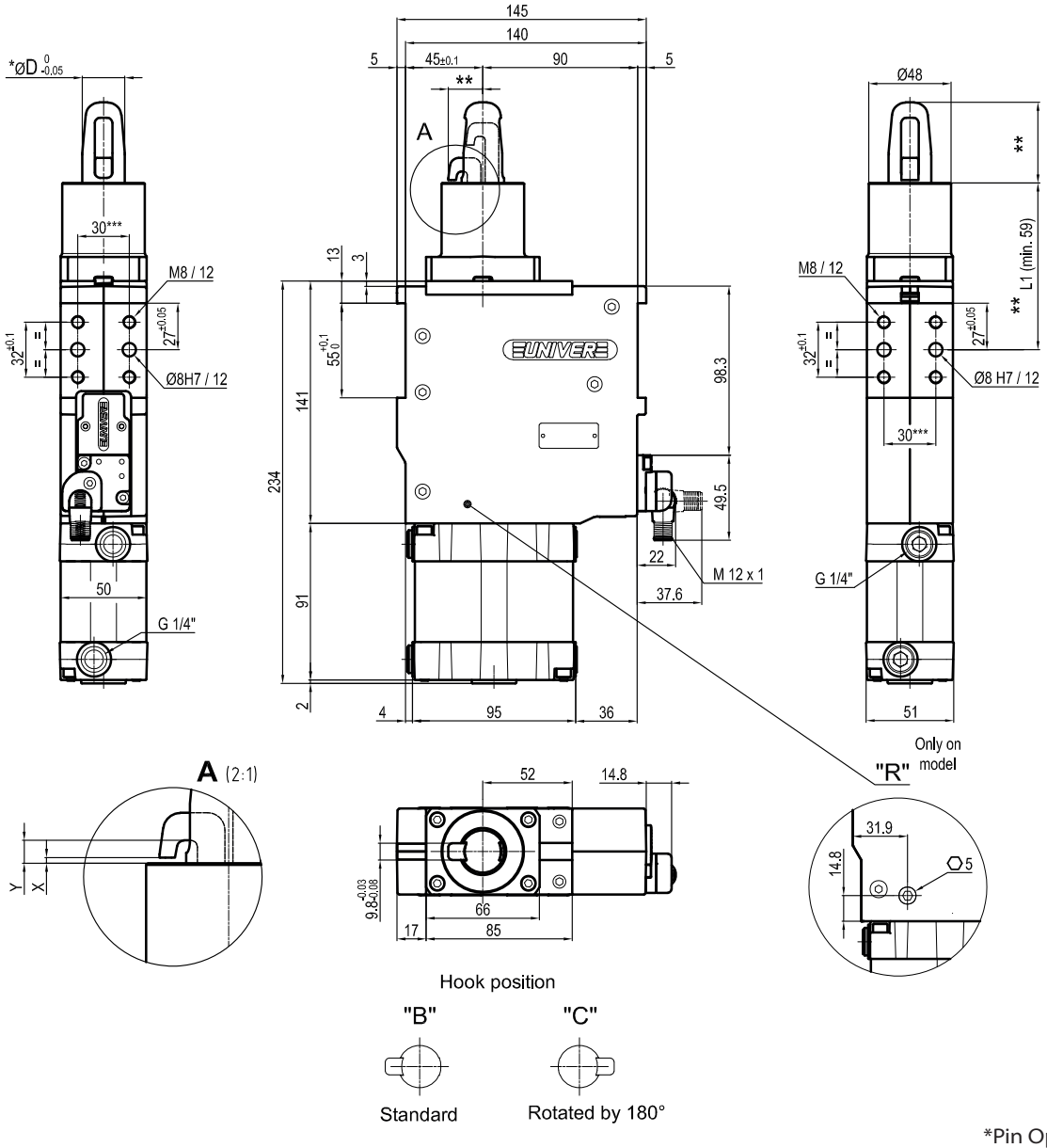
Sensors



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 + 6 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