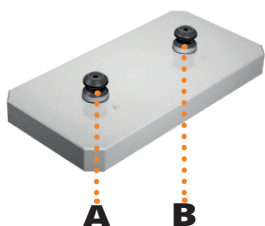
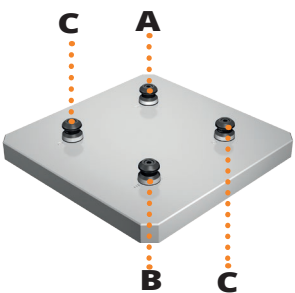
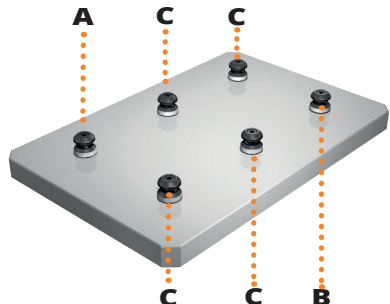
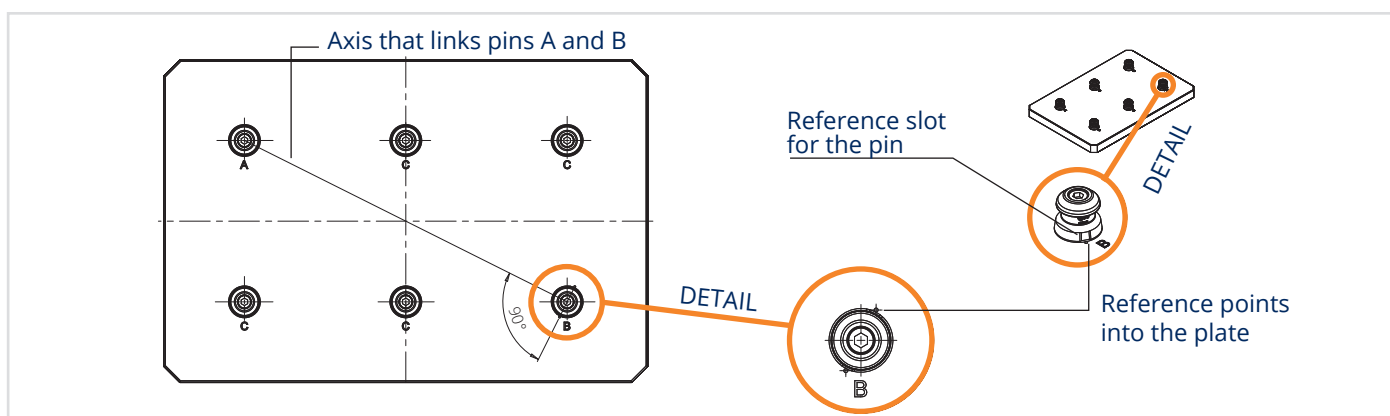


CLAMPING PINS

Positioning and clamping of the devices and/or of the workpiece are achieved through the clamping pins.

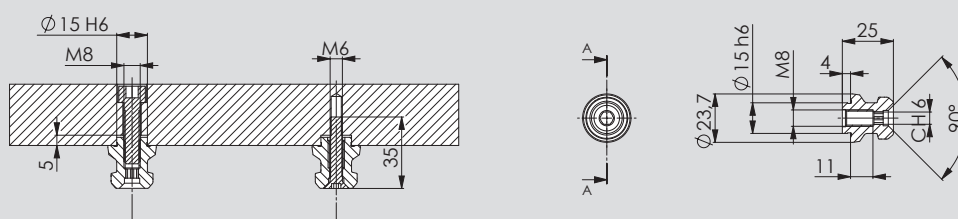
TYPE A Centering pin	TYPE B Reference pin	TYPE C Pull-down pin $\pm 0,05$ mm
 used for centering and clamping	 used for reference and clamping	 only for clamping
		



Tightening torque for pins mounting bolts

BOLTS	N·M
M6	13
M8	35
M10	60
M12	110
M16	200

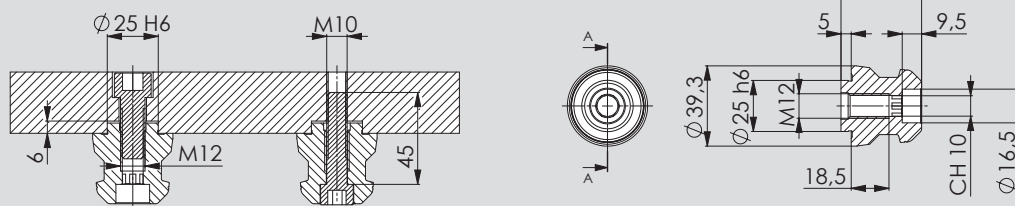
Pins for APS 100



ID.N.	TYPE		WEIGHT
46 16 21 55	A	M8	0,05 Kg
46 16 21 56	B	M8	0,05 Kg
46 16 21 57	C	M8	0,05 Kg

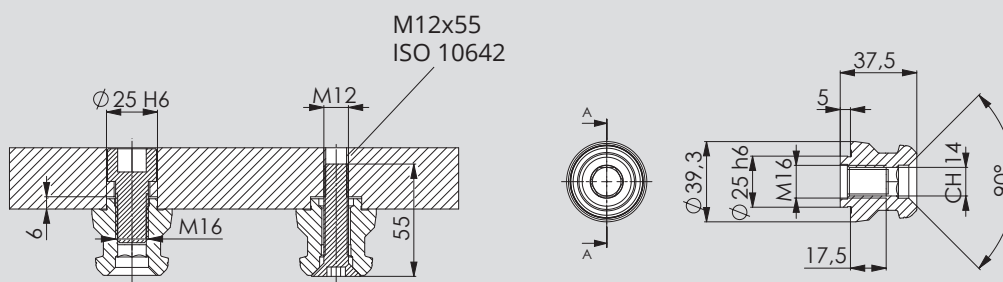
Pins for APS 140 M12 thread

Compatible with
Unilock/Vero-S
system



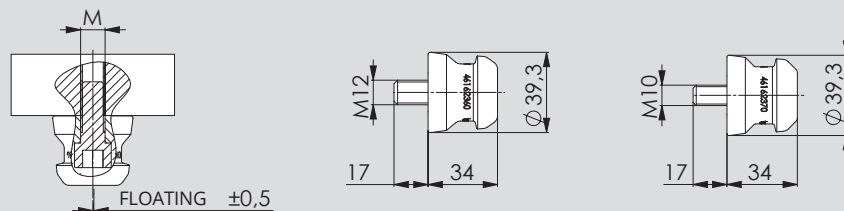
ID.N.	TYPE		WEIGHT
46 16 23 55	A	M12	0,2 Kg
46 16 23 56	B	M12	0,2 Kg
46 16 23 57	C	M12	0,2 Kg

Pins for APS 140 M16 thread



ID.N.	TYPE		WEIGHT
46 16 24 55	A	M16	0,2 Kg
46 16 24 56	B	M16	0,2 Kg
46 16 24 57	C	M16	0,2 Kg

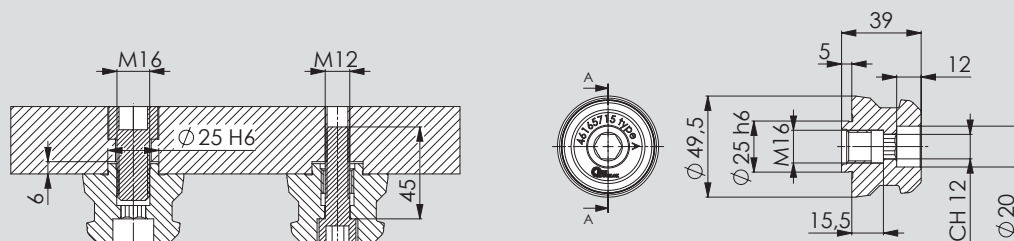
Pins TYPE C floating for APS 140



These pins don't require centering. They are floating only radially and not angularly.

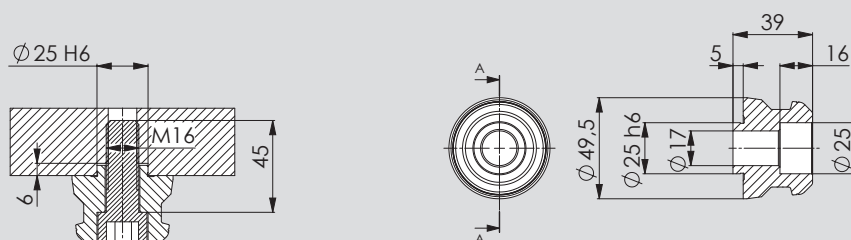
ID.N.	TYPE		WEIGHT
46 16 23 70	C - FLOATING $\pm 0,5$ mm	M10	0,2 Kg
46 16 23 60	C - FLOATING $\pm 0,5$ mm	M12	0,2 Kg

Pins for APS 160 M16 thread



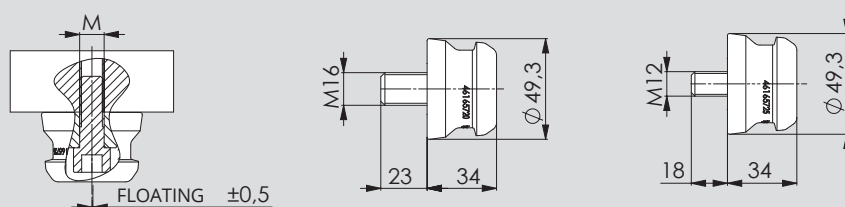
ID.N.	TYPE		WEIGHT
46 16 57 15	A	M16	0,35 Kg
46 16 57 16	B	M16	0,35 Kg
46 16 57 17	C	M16	0,35 Kg

Pins for APS 160 D17



ID.N.	TYPE		WEIGHT
46 16 57 05	A	D17	0,3 Kg
46 16 57 06	B	D17	0,3 Kg
46 16 57 07	C	D17	0,3 Kg

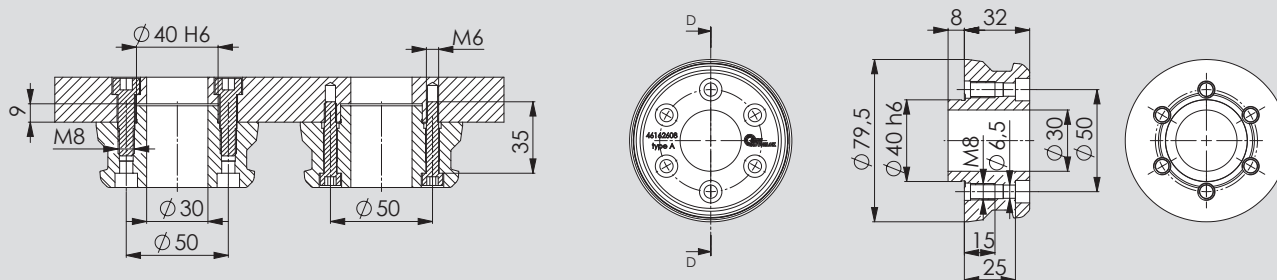
Pins TYPE C floating for APS 160



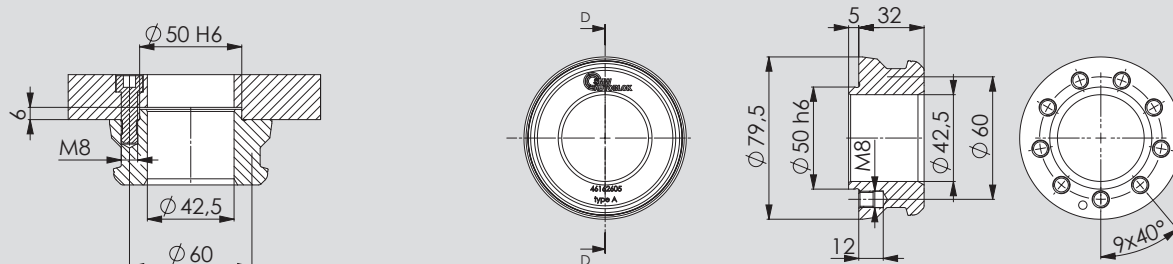
These pins don't require centering. They are floating only radially and not angularly.

ID.N.	TYPE		WEIGHT
46 16 57 20	C - FLOATING ± 0,5 mm	M16	0,4 Kg
46 16 57 25	C - FLOATING ± 0,5 mm	M12	0,35 Kg

Pins for APS 190

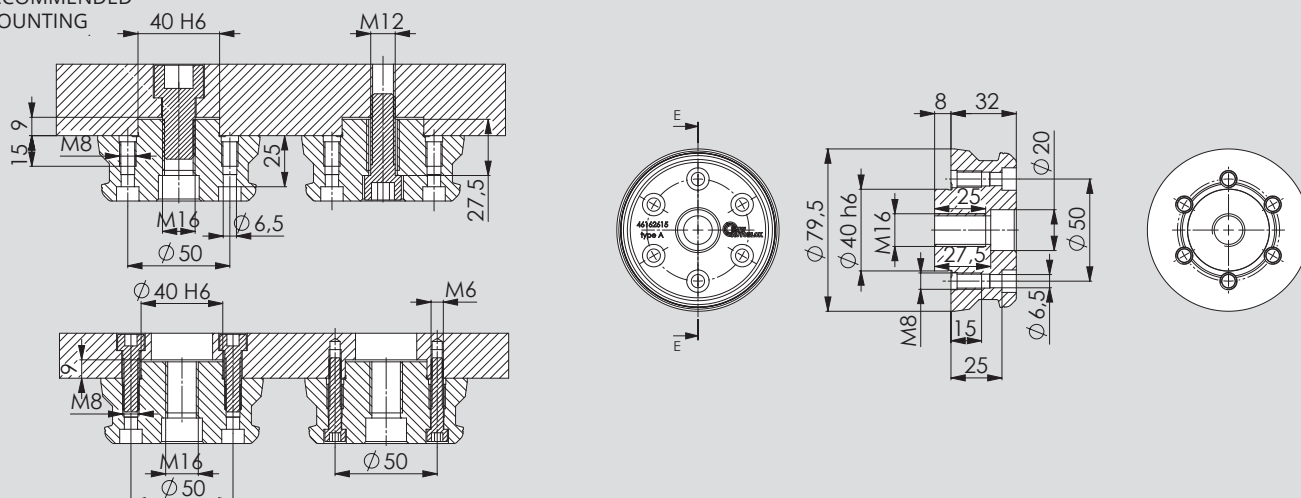


ID.N.	TYPE	WEIGHT	NOTE
46 16 26 08	A	0,85 Kg	Pin with central hole Ø 30



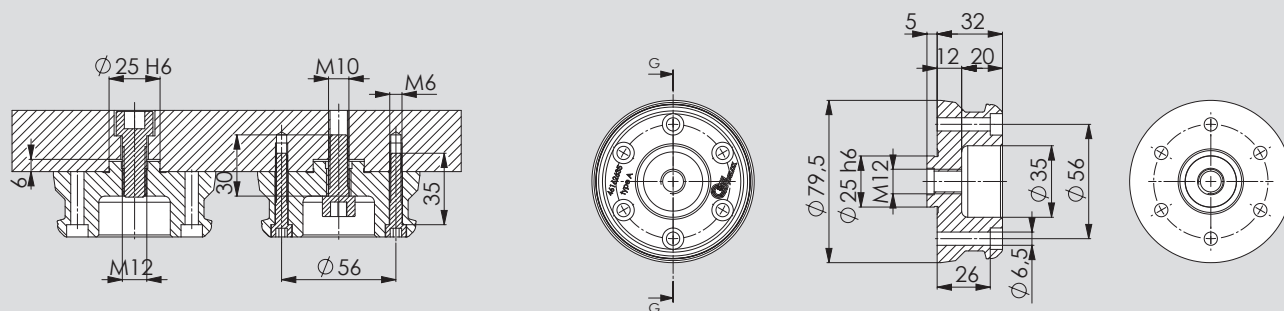
ID.N.	TYPE	WEIGHT	NOTE
46 16 26 05	A	0,7 Kg	Pin with central hole Ø 42

RECOMMENDED
MOUNTING



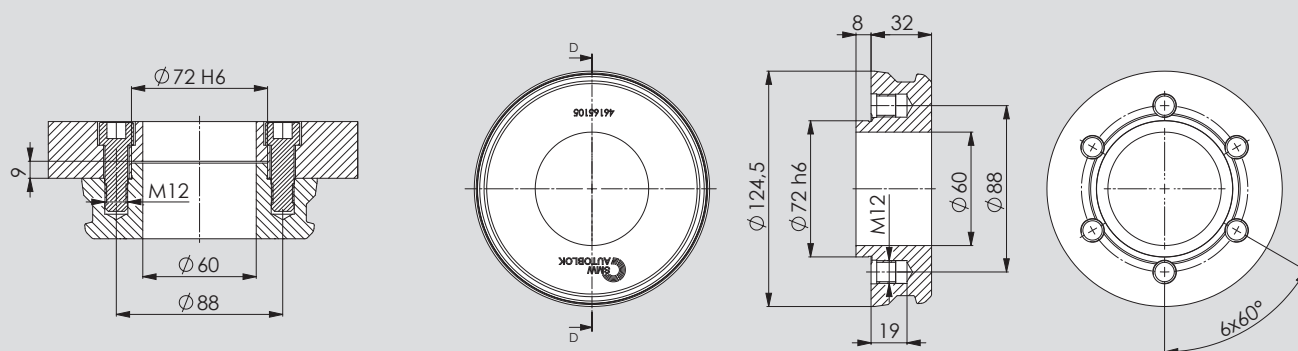
ID.N.	TYPE	WEIGHT
46 16 26 15	A	M16 1 kg
46 16 26 16	B	M16 1 kg
46 16 26 17	C	M16 1 kg

Pins for APS 190

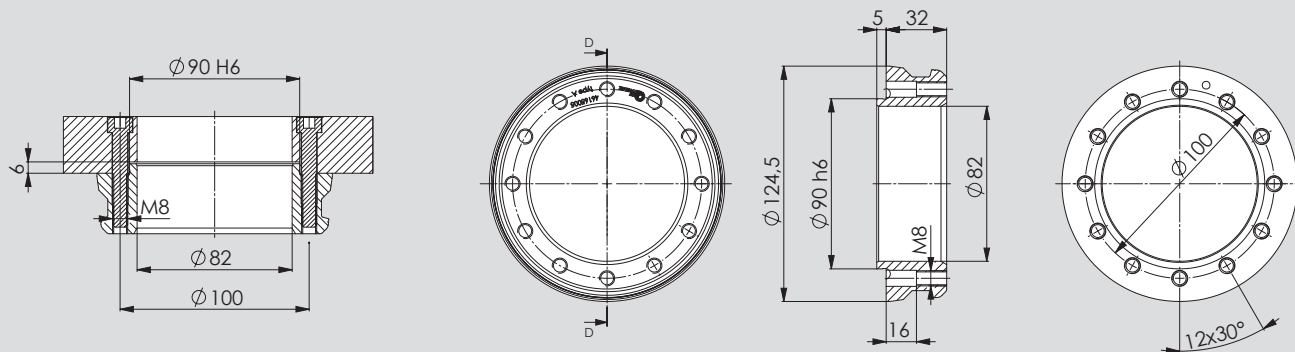


ID.N.	TYPE		WEIGHT
46 16 26 35	A	Mounting pin = to the pin APS-140 M12	0,85 kg

Pins for APS 250



ID.N.	TYPE	WEIGHT	NOTE
46 16 51 05	A	2 Kg	Pin with central hole Ø 60



ID.N.	TYPE	WEIGHT	NOTE
46 16 50 05	A	1,3 Kg	Pin with central hole Ø 82