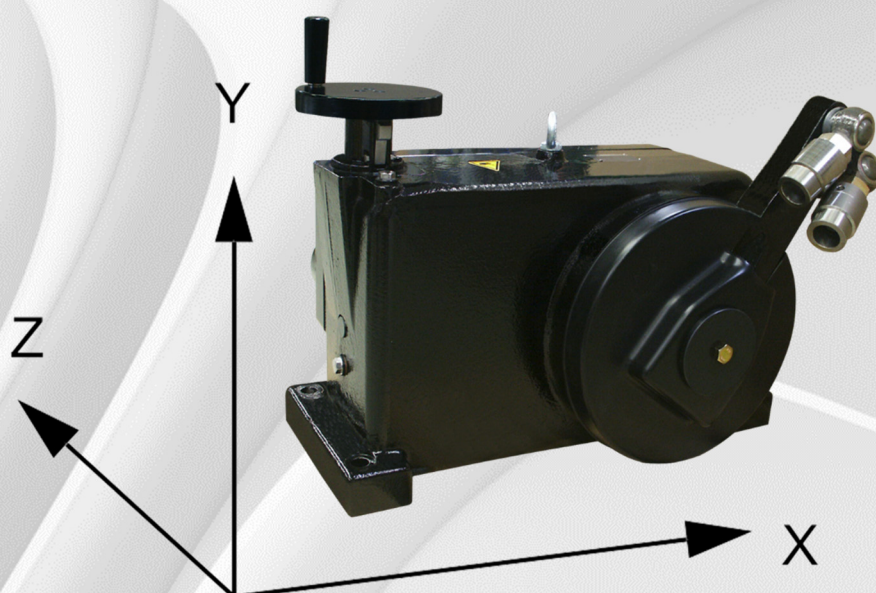


ABB MEASUREMENT & ANALYTICS | DATA SHEET

Adapter plates

for continuous rotary actuators (Contrac)



Steel plate including fixing screws for the mechanical adaptation of lever actuators on existing fixing device of lever actuator types

Enables faster replacement

Avoids additional installation costs

Operating level of actuating lever and coupling rods remains unchanged

Application area

When renewing or replacing actuators it used to be necessary to install fasteners for the new lever actuator in addition to the existing fixing devices.

This problem can now be overcome by using an adapter plate which is tailored to the lever actuators concerned.

Because the existing fastener is used, old lever actuators can be replaced easily without any additional and unnecessary expense.

In terms of the adapter plate design, one of the key issues was the need to retain the coupling rod center of the old and new actuators.

Height compensation

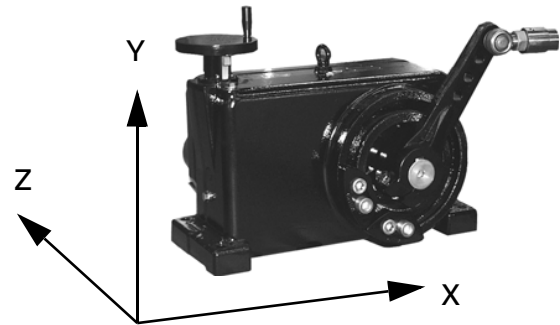


Figure 1: Height adjustment

The adapter plates ensure that the drive shaft pivot points of the old and new actuators remain the same in both the X and Z directions.

However, in the case of certain actuators, there is a height difference in the 'Y' direction. A '+' difference (new actuator is lower than the old one) can be compensated by adding intermediate spacers in accordance with the height difference 'H'. However, ABB recommends that the coupling rod between the ball-and-socket joints is adjusted.

A '-' difference (new actuator higher than the old one) can only be compensated by adjusting the rod.

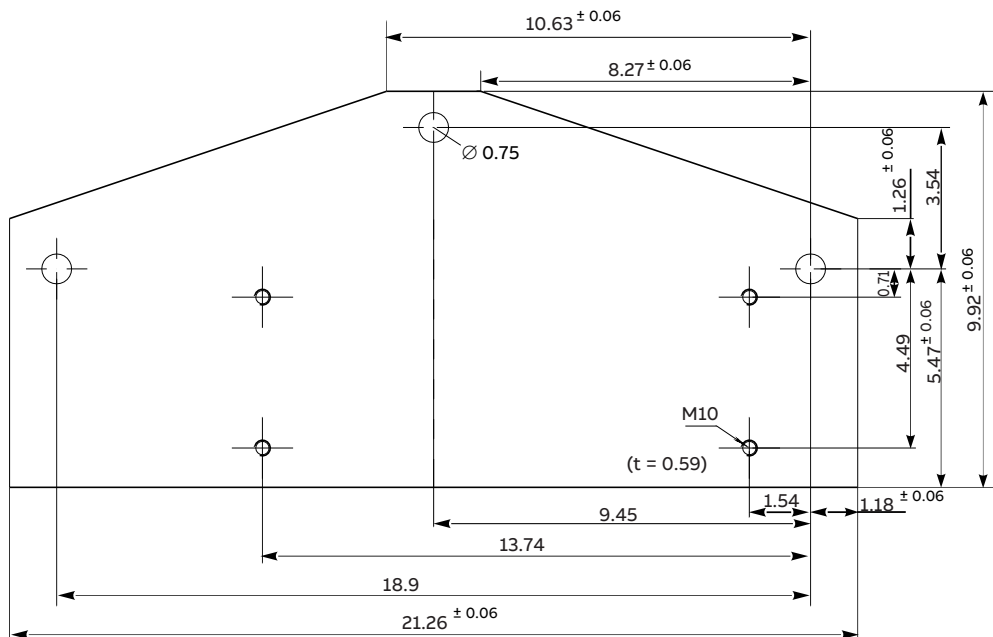
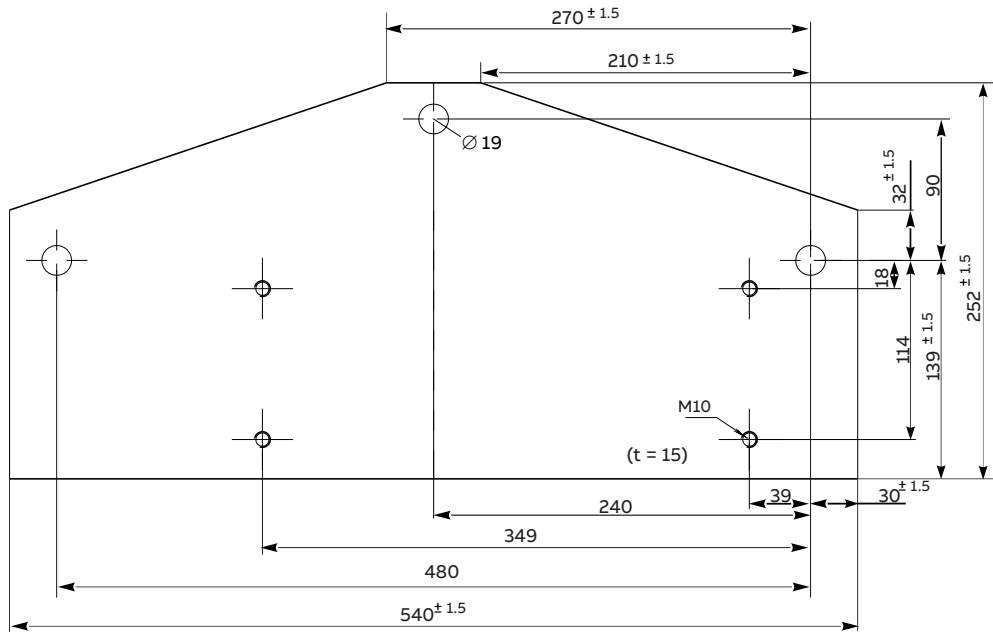
Old actuator	New actuator	Adapter plate	'H' (height difference)
RH8	PME120	AP7	+31 mm (1.22 in)
RH5 / RH10	PME120	AP7	+87 mm (3.43 in)
RH12 to 60	RHD(E)250*	AP1	+35 mm (1.38 in)
RH12 to 60	RHD(E)500 / 800*	AP2	0 mm (0 in)
RH125	RHD(E)1250 / 2500*	AP3	+3 mm (0.12 in)
RH250	RHD(E)1250 / 2500*	AP4	+28 mm (1.1 in)
RH400	RHD(E)4000*	AP5	+23 mm (0.91 in)
RH800	RHD(E)8000*	AP6	-135 mm (-5.31 in)

* Height compensation also applies to the corresponding actuators from the RHA and RHB series

Dimensions

AP1

Dimensions in mm

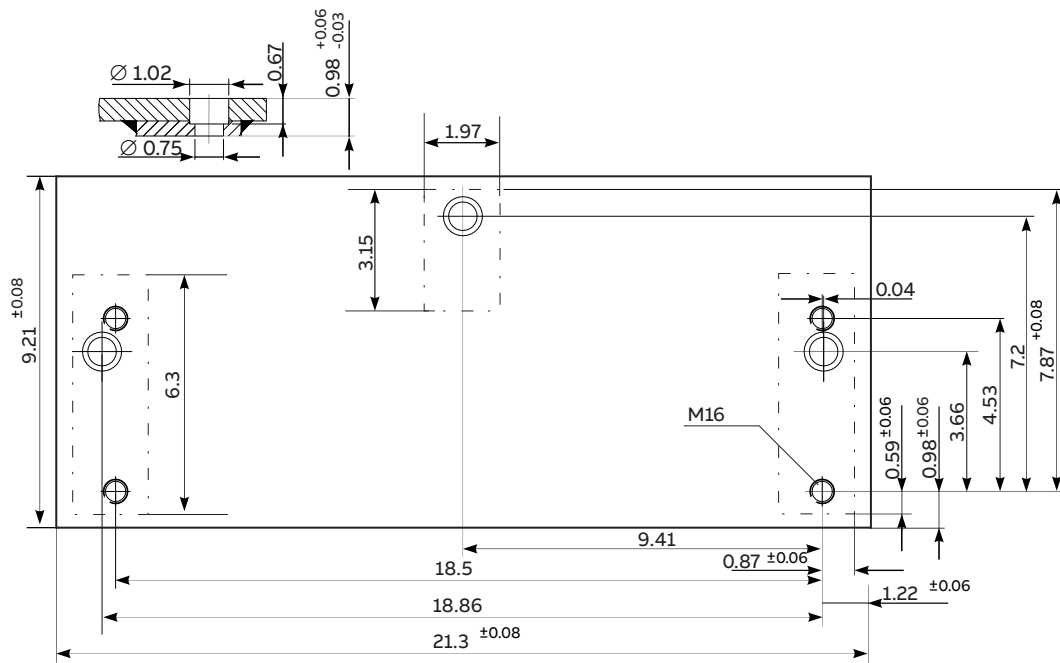
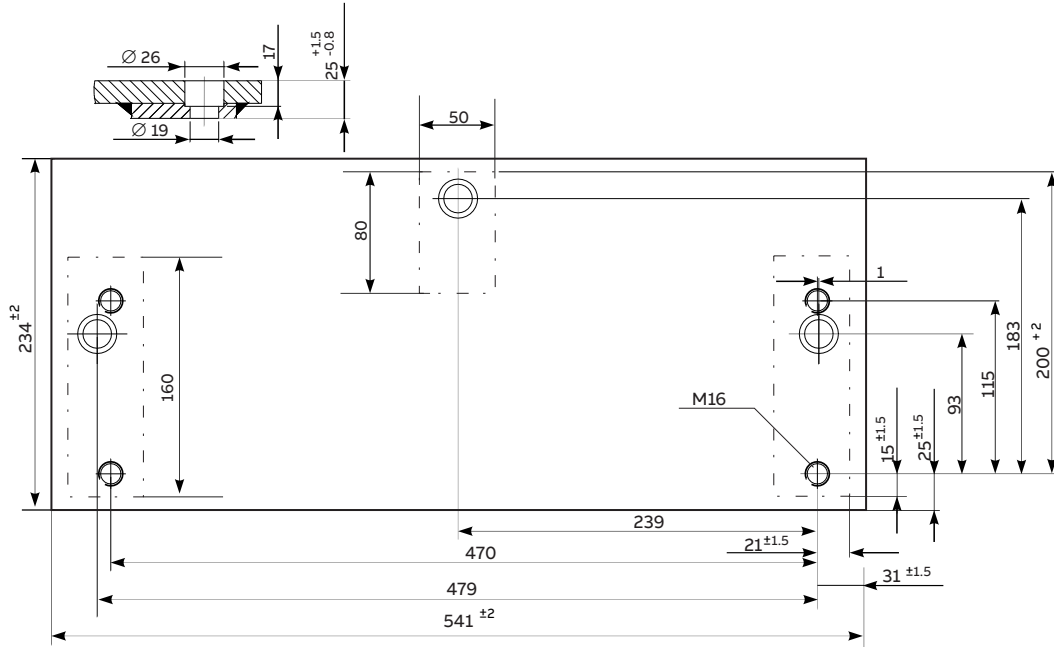


Dimensions in in

Figure 2: Dimensions AP1

AP2

Dimensions in mm



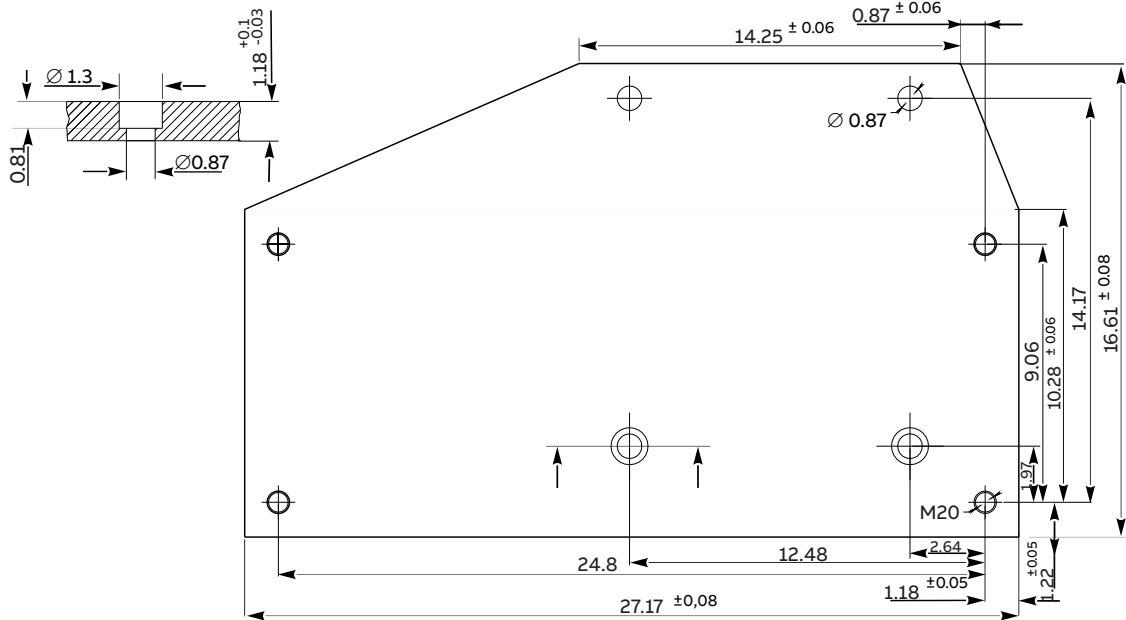
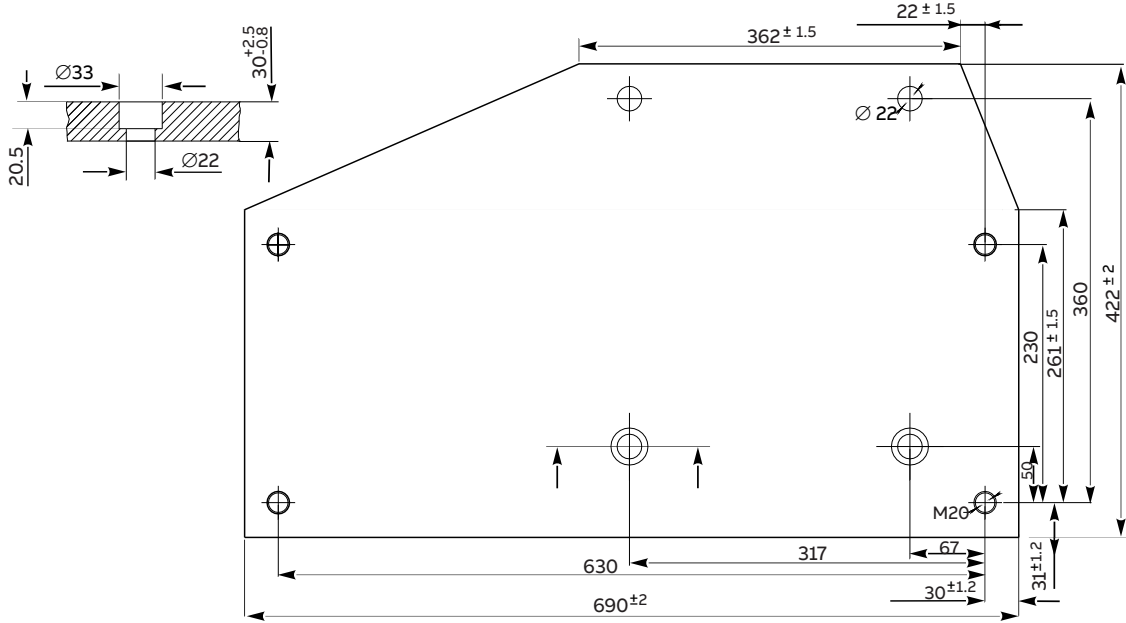
Dimensions in in

Figure 3: Dimensions AP2

... Dimensions

AP3

Dimensions in mm

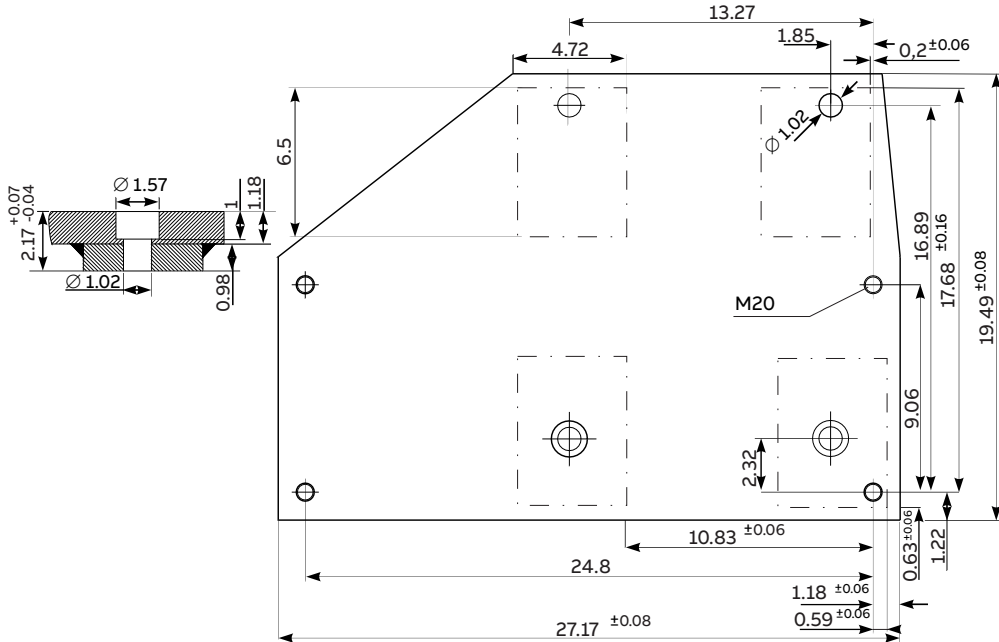
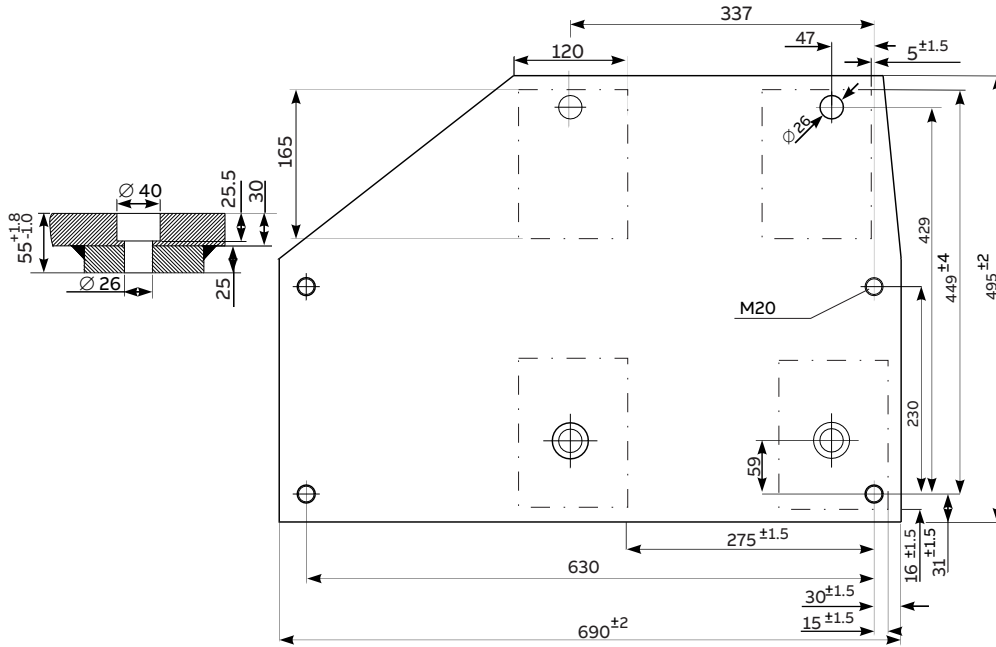


Dimensions in in

Figure 4: Dimensions AP3

AP4

Dimensions in mm

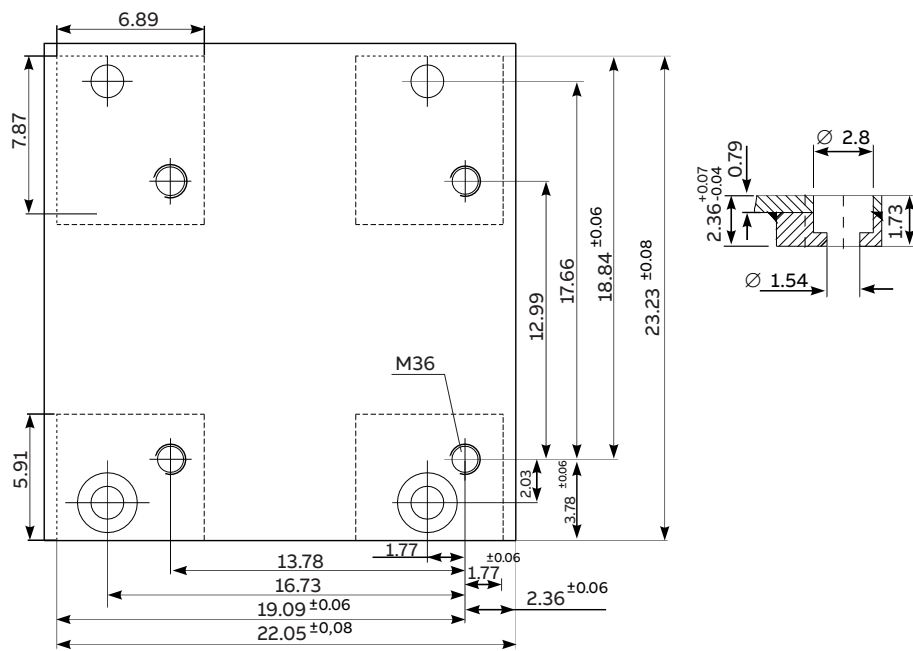
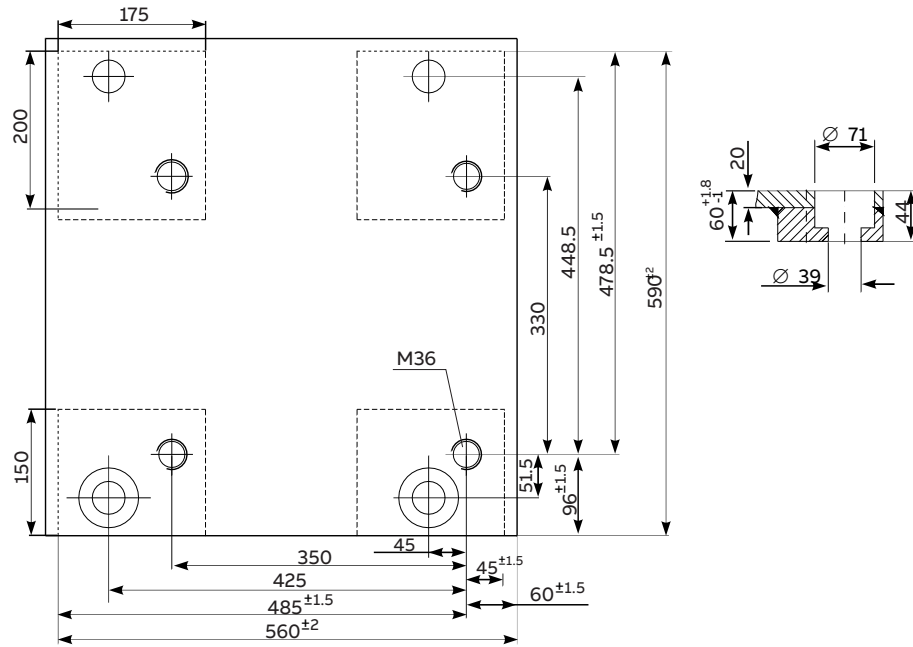


Dimensions in in

Figure 5: Dimensions AP4

AP6

Dimensions in mm



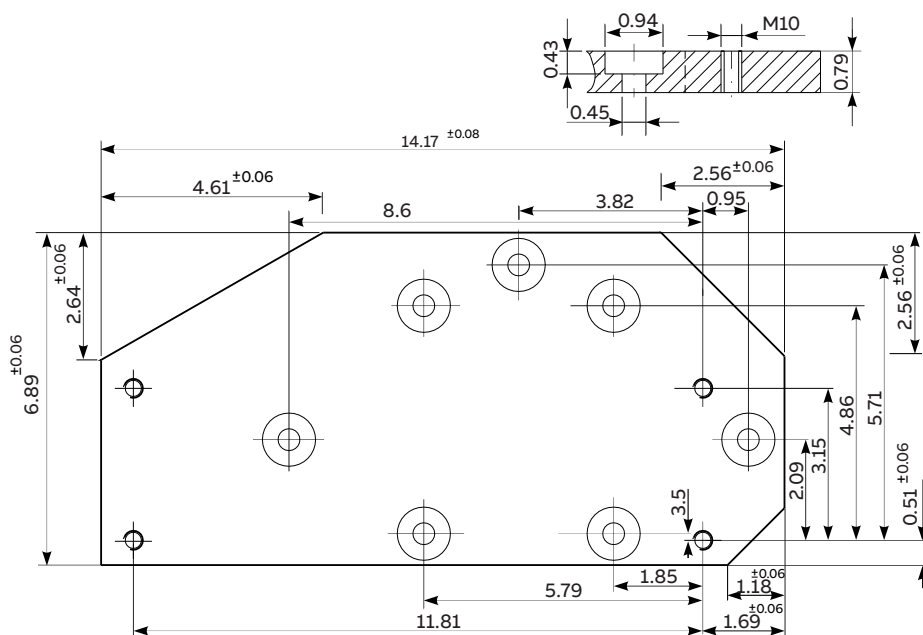
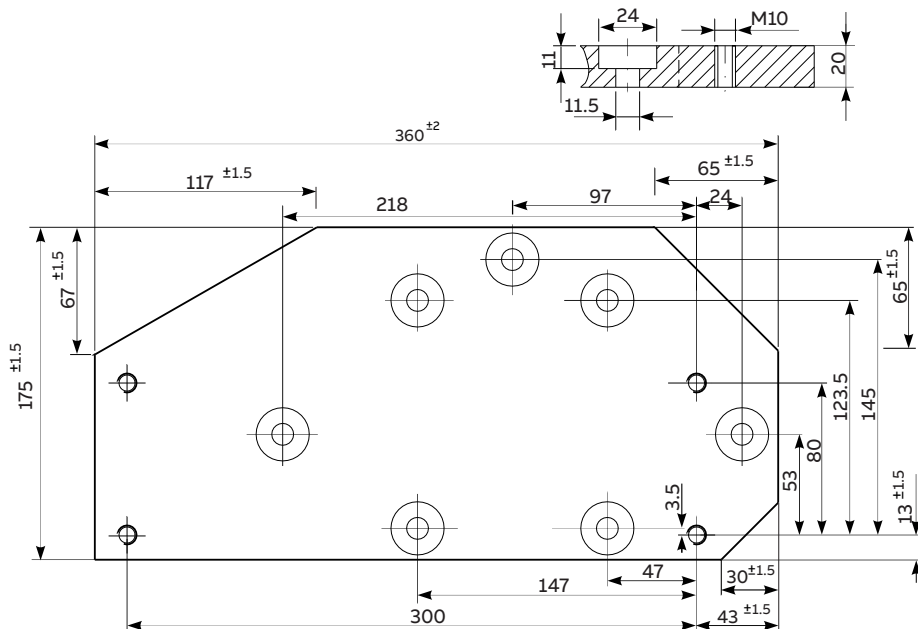
Dimensions in in

Figure 7: Dimensions AP6

... Dimensions

AP7

Dimensions in mm



Dimensions in in

Figure 8: Dimensions AP7

Ordering Information

Description	Ordering number
RHD(E) adapter plate for rotary actuators, type AP1	789189
RHD(E) adapter plate for rotary actuators, type AP2	789191
RHD(E) adapter plate for rotary actuators, type AP3	789193
RHD(E) adapter plate for rotary actuators, type AP4	789195
RHD(E) adapter plate for rotary actuators, type AP5	789197
RHD(E) adapter plate for rotary actuators, type AP6	789199
PME adapter plate for rotary actuators, type AP7	789450

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